

Gen Sasaki

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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	Effects of a magnetic field on the nucleation and growth of protein crystals. <i>Journal of Crystal Growth</i> , 1997 , 173, 231-234	1.6	163
162	Crystal structures of the reaction intermediate and its homologue of an extradiol-cleaving catecholic dioxygenase. <i>Journal of Molecular Biology</i> , 2002 , 321, 621-36	6.5	97
161	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> , 2010 , 107, 19702-7	11.5	92
160	In situ observation of elementary growth steps on the surface of protein crystals by laser confocal microscopy. <i>Journal of Crystal Growth</i> , 2004 , 262, 536-542	1.6	89
159	Grain growth behaviors of polycrystalline silicon during melt growth processes. <i>Journal of Crystal Growth</i> , 2004 , 266, 441-448	1.6	89
158	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> , 2012 , 109, 1052-5	11.5	88
157	Direct AFM observations of impurity effects on a lysozyme crystal. <i>Journal of Crystal Growth</i> , 1999 , 196, 503-510	1.6	88
156	Enhanced quantum efficiency of solar cells with self-assembled Ge dots stacked in multilayer structure. <i>Applied Physics Letters</i> , 2003 , 83, 1258-1260	3.4	86
155	A novel approach to the solubility measurement of protein crystals by two-beam interferometry. <i>Journal of Crystal Growth</i> , 1996 , 169, 355-360	1.6	77
154	In situ observation of Si faceted dendrite growth from low-degree-of-undercooling melts. <i>Acta Materialia</i> , 2008 , 56, 2663-2668	8.4	74
153	Formation mechanism of parallel twins related to Si-faceted dendrite growth. <i>Scripta Materialia</i> , 2007 , 57, 81-84	5.6	68
152	In situ observations of crystal growth behavior of silicon melt. <i>Journal of Crystal Growth</i> , 2002 , 243, 275-282	1.6	64
151	In-situ observations of melt growth behavior of polycrystalline silicon. <i>Journal of Crystal Growth</i> , 2004 , 262, 124-129	1.6	59
150	Effects of a magnetic field on the growth rate of tetragonal lysozyme crystals. <i>Journal of Crystal Growth</i> , 2000 , 208, 645-650	1.6	59
149	Thermodynamic origin of surface melting on ice crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6741-E6748	11.5	55
148	Growth of Ge-rich SixGe1-x single crystal with uniform composition (x=0.02) on a compositionally graded crystal for use as GaAs solar cells. <i>Journal of Crystal Growth</i> , 1999 , 205, 270-276	1.6	54
147	Comparison of Different Experimental Techniques for the Measurement of Crystal Growth Kinetics. <i>Crystal Growth and Design</i> , 2008 , 8, 4316-4323	3.5	51

146	Femtosecond laser-induced nucleation of protein in agarose gel. <i>Journal of Crystal Growth</i> , 2009 , 311, 956-959	1.6	49
145	Direct and Noninvasive Observation of Two-Dimensional Nucleation Behavior of Protein Crystals by Advanced Optical Microscopy. <i>Crystal Growth and Design</i> , 2007 , 7, 1980-1987	3.5	48
144	Novel coupling effects of the magnetic and electric fields on protein crystallization. <i>Journal of Crystal Growth</i> , 2004 , 262, 499-502	1.6	47
143	In Situ Observation of Step Dynamics on Gypsum Crystals. <i>Crystal Growth and Design</i> , 2010 , 10, 3909-3915	3.5	46
142	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> , 2001 , 224, 204-211	1.6	46
141	Growth of protein crystals in hydrogels prevents osmotic shock. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5786-9	16.4	45
140	The use of a new ad hoc growth cell with parallel electrodes for the nucleation control of lysozyme. <i>Journal of Crystal Growth</i> , 2004 , 264, 438-444	1.6	44
139	Interferometric study on the crystal growth of tetragonal lysozyme crystal. <i>Journal of Crystal Growth</i> , 1996 , 166, 904-908	1.6	44
138	Effect of a magnetic field on the orientation of hen egg-white lysozyme crystals. <i>Journal of Crystal Growth</i> , 1999 , 196, 319-324	1.6	43
137	Antifreeze effect of carboxylated ϵ -poly-L-lysine on the growth kinetics of ice crystals. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10240-9	3.4	42
136	Enhancement of femtosecond laser-induced nucleation of protein in a gel solution. <i>Applied Physics Letters</i> , 2010 , 96, 043702	3.4	42
135	Single-nucleus polycrystallization in thin film epitaxial growth. <i>Physical Review Letters</i> , 2007 , 98, 046104	7.4	42
134	Enhancement in the perfection of orthorhombic lysozyme crystals grown in a high magnetic field (10 T). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 1079-83		41
133	The Surface of Ice under Equilibrium and Nonequilibrium Conditions. <i>Accounts of Chemical Research</i> , 2019 , 52, 1006-1015	24.3	40
132	Step velocity in tetragonal lysozyme growth as a function of impurity concentration and mass transport conditions. <i>Journal of Crystal Growth</i> , 2006 , 293, 102-109	1.6	38
131	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> , 2016 , 113, 1749-53	11.5	37
130	Solubility of tetragonal and orthorhombic lysozyme crystals under high pressure. <i>Journal of Crystal Growth</i> , 1999 , 196, 204-209	1.6	37
129	Chiral and Achiral Mechanisms of Regulation of Calcite Crystallization. <i>Crystal Growth and Design</i> , 2009 , 9, 127-135	3.5	35

128	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> , 2002 , 240, 373-381	1.6	32
127	Nucleation and Polymorphism of Calcium Carbonate by a Vapor Diffusion Sitting Drop Crystallization Technique. <i>Crystal Growth and Design</i> , 2010 , 10, 963-969	3.5	31
126	Direct Observation of Adsorption Sites of Protein Impurities and Their Effects on Step Advancement of Protein Crystals. <i>Crystal Growth and Design</i> , 2009 , 9, 3062-3071	3.5	31
125	Incorporation of impurity to a tetragonal lysozyme crystal. <i>Journal of Crystal Growth</i> , 1999 , 196, 285-290	1.6	31
124	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> , 2008 , 8, 3623-3629	3.5	30
123	Effects of misfit dislocations and AlN buffer layer on the GaInN/GaN phase diagram of the growth mode. <i>Journal of Applied Physics</i> , 2001 , 89, 146-153	2.5	30
122	In Situ Observation of Dislocations in Protein Crystals during Growth by Advanced Optical Microscopy. <i>Crystal Growth and Design</i> , 2005 , 5, 1729-1735	3.5	29
121	Protein crystallization under high pressure. <i>BBA - Proteins and Proteomics</i> , 2002 , 1595, 345-56		29
120	Anomalous diffusion in supported lipid bilayers induced by oxide surface nanostructures. <i>Langmuir</i> , 2011 , 27, 9662-5	4	28
119	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> , 2004 , 60, 149-52		27
118	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> , 2003 , 250, 298-304	1.6	27
117	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> , 2005 , 61, 207-17		27
116	Crystal quality enhancement by magnetic fields. <i>Progress in Biophysics and Molecular Biology</i> , 2009 , 101, 45-55	4.7	26
115	Mechanism of crystallization of enzyme protein thermolysin. <i>Journal of Crystal Growth</i> , 1993 , 130, 357-367		26
114	Atomic Force Microscopic Study of Subsurface Ordering and Structural Transforms in n-Alcohol on Mica and Graphite. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L52-L55	1.4	25
113	Significant Decrease in the Solubility of Glucose Isomerase Crystals under High Pressure. <i>Crystal Growth and Design</i> , 2002 , 2, 321-324	3.5	25
112	AFM observation of a sulfate adlayer on Au(111) in sulfuric acid solution. <i>Surface Science</i> , 1996 , 367, L73-L78		24
111	Crystal quality of a 6H-SiC layer grown over macrodefects by liquid-phase epitaxy: a Raman spectroscopic study. <i>Thin Solid Films</i> , 2005 , 476, 206-209	2.2	23

110	In Situ Determination of Surface Tension-to-Shear Viscosity Ratio for Quasiliquid Layers on Ice Crystal Surfaces. <i>Physical Review Letters</i> , 2015 , 115, 256103	7.4	22
109	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> , 2012 , 12, 2856-2863	3.5	22
108	Laser energy dependence on femtosecond laser-induced nucleation of protein. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 911-915	2.6	22
107	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 ₄ F Etching Process of Si(111). <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 5701-5705	1.4	22
106	Effects of pressure on growth kinetics of tetragonal lysozyme crystals. <i>Journal of Crystal Growth</i> , 2000 , 208, 638-644	1.6	22
105	How do Quasi-Liquid Layers Emerge from Ice Crystal Surfaces?. <i>Crystal Growth and Design</i> , 2013 , 13, 1761-1766	3.5	20
104	Single-Molecule Visualization of Diffusion at the Solution-Crystal Interface. <i>Crystal Growth and Design</i> , 2008 , 8, 2024-2031	3.5	20
103	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> , 2004 , 262, 196-201	1.6	20
102	Macroband Analysis of the Macro- and Micromorphology of Monoclinic Lysozyme Crystal. <i>Crystal Growth and Design</i> , 2001 , 1, 327-332	3.5	20
101	Photochemically induced nucleation in supersaturated and undersaturated thaumatin solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 190, 88-93	4.7	19
100	Polycrystalline domain structure of pentacene thin films epitaxially grown on a hydrogen-terminated Si(111) surface. <i>Physical Review B</i> , 2007 , 76,	3.3	19
99	Surface-enhanced hyper-Raman spectroscopy using optical trapping of silver nanoparticles for molecular detection in solution. <i>Journal of Optics</i> , 2007 , 9, S164-S171		19
98	On the origin of strain fluctuation in strained-Si grown on SiGe-on-insulator and SiGe virtual substrates. <i>Applied Physics Letters</i> , 2004 , 85, 1335-1337	3.4	19
97	Effects of high pressure on the growth kinetics of orthorhombic lysozyme crystals. <i>Journal of Crystal Growth</i> , 2003 , 254, 188-195	1.6	19
96	An interferometric study of the solubility of lysozyme crystals under high pressure. <i>Journal of Crystal Growth</i> , 2000 , 209, 1018-1022	1.6	19
95	Magnetic Damping of the Temperature-Driven Convection in NaCl Aqueous Solution Using a Static and Homogeneous Field of 10 T. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, L842-L844	1.4	19
94	Prism and Other High-Index Faces of Ice Crystals Exhibit Two Types of Quasi-Liquid Layers. <i>Crystal Growth and Design</i> , 2015 , 15, 3339-3344	3.5	18
93	Double Spiral Steps on Ih Ice Crystal Surfaces Grown from Water Vapor Just below the Melting Point. <i>Crystal Growth and Design</i> , 2014 , 14, 2133-2137	3.5	18

92	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> , 2014 , 14, 3210-3220	3.5	18
91	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> , 2006 , 293, 415-422	1.6	18
90	Influence of the elastic strain on the band structure of ellipsoidal SiGe coherently embedded in the Si matrix. <i>Journal of Applied Physics</i> , 2003 , 94, 916-920	2.5	18
89	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> , 2005 , 275, e1437-e1446	1.6	18
88	Oscillations and accelerations of ice crystal growth rates in microgravity in presence of antifreeze glycoprotein impurity in supercooled water. <i>Scientific Reports</i> , 2017 , 7, 43157	4.9	17
87	High-pressure acceleration of the growth kinetics of glucose isomerase crystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3222-6	3.4	17
86	Effects of spacer thickness on quantum efficiency of the solar cells with embedded Ge islands in the intrinsic layer. <i>Applied Physics Letters</i> , 2004 , 84, 2802-2804	3.4	17
85	Spiral-Mediated Growth Can Lead to Crystals of Higher Purity. <i>Crystal Growth and Design</i> , 2012 , 12, 2367-2374	3.5	16
84	A Novel Approach for Protein Crystallization by a Synthetic Hydrogel with Thermoreversible Gelation Polymer. <i>Crystal Growth and Design</i> , 2013 , 13, 1899-1904	3.5	16
83	Physical model for the evaluation of solid-liquid interfacial tension in silicon. <i>Journal of Applied Physics</i> , 2001 , 90, 750-755	2.5	16
82	First Direct Observation of Elementary Steps on the Surfaces of Glucose Isomerase Crystals under High Pressure. <i>Crystal Growth and Design</i> , 2009 , 9, 4289-4295	3.5	15
81	Single-molecule measurements and dynamical simulations of protein molecules near silicon substrates. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 095301	3	15
80	Melt growth of multicrystalline SiGe with large compositional distribution for new solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2002 , 72, 93-100	6.4	15
79	Growth and properties of SiGe multicrystals with microscopic compositional distribution for high-efficiency solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2002 , 73, 305-320	6.4	15
78	Improvement in diffraction maxima in orthorhombic HEWL crystal grown under high magnetic field. <i>Journal of Crystal Growth</i> , 2001 , 232, 229-236	1.6	15
77	Recrystallization of Cu-phthalocyanine on KCl (0 0 1) substrates by annealing method. <i>Journal of Crystal Growth</i> , 2003 , 254, 244-250	1.6	14
76	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> , 2018 , 115, 7479-7484	11.5	14
75	Temperature Dependence of the Growth Kinetics of Elementary Spiral Steps on Ice Basal Faces Grown from Water Vapor. <i>Crystal Growth and Design</i> , 2018 , 18, 786-793	3.5	13

74	Crystallization studies on a concavalin A crystal with high-index faces. <i>Journal of Crystal Growth</i> , 1998 , 186, 461-470	1.6	13
73	Step-Induced Anisotropic Growth of Pentacene Thin Film Crystals on a Hydrogen-Terminated Si(111) Surface. <i>Crystal Growth and Design</i> , 2007 , 7, 439-444	3.5	13
72	New method for measurement of interdiffusion coefficient in high temperature solutions based on Fick's first law. <i>Journal of Crystal Growth</i> , 2002 , 241, 387-394	1.6	13
71	Morphology and solubility of multiple crystal forms of Taka-amylase A. <i>Journal of Crystal Growth</i> , 2001 , 222, 311-316	1.6	13
70	SiGe bulk crystal as a lattice-matched substrate to GaAs for solar cell applications. <i>Applied Physics Letters</i> , 2000 , 77, 3565-3567	3.4	13
69	Growth of Ice Crystals in the Presence of Type III Antifreeze Protein. <i>Crystal Growth and Design</i> , 2018 , 18, 2563-2571	3.5	12
68	Spatially Precise, Soft Microseeding of Single Protein Crystals by Femtosecond Laser Ablation. <i>Crystal Growth and Design</i> , 2012 , 12, 4334-4339	3.5	12
67	Phase diagram of growth mode for the SiGe/Si heterostructure system with misfit dislocations. <i>Journal of Crystal Growth</i> , 2004 , 260, 372-383	1.6	12
66	In-situ monitoring system of the position and temperature at the crystal/solution interface. <i>Journal of Crystal Growth</i> , 2002 , 236, 125-131	1.6	12
65	Detection of Covalent-bonded Dimer in Photochemically Induced Crystallization of Protein. <i>Chemistry Letters</i> , 2007 , 36, 714-715	1.7	11
64	High Contrast Visualization of Cell-Hydrogel Contact by Advanced Interferometric Optical Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 253-7	6.4	10
63	Fabrication of SiGe-on-insulator by rapid thermal annealing of Ge on Si-on-insulator substrate. <i>Applied Surface Science</i> , 2004 , 224, 95-98	6.7	10
62	Stacked Ge islands for photovoltaic applications. <i>Science and Technology of Advanced Materials</i> , 2003 , 4, 367-370	7.1	10
61	How Do Ice Crystals Grow inside Quasiliquid Layers?. <i>Physical Review Letters</i> , 2019 , 122, 026102	7.4	10
60	Oscillatory growth for twisting crystals. <i>Chemical Communications</i> , 2015 , 51, 8516-9	5.8	9
59	Gradual Immobilization Processes of Molecules during Transitions from Solute to Solid States. <i>Crystal Growth and Design</i> , 2011 , 11, 88-92	3.5	9
58	Molten metal flux growth and properties of CrSi ₂ . <i>Journal of Alloys and Compounds</i> , 2004 , 383, 319-321	5.7	9
57	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> , 2005 , 273, 594-602	1.6	9

56	Growth of SixGe _{1-x} (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> , 2001 , 40, 4141-4144	1.4	9
55	Phase diagram calculation for epitaxial growth of GaInAs on InP considering the surface, interfacial and strain energies. <i>Journal of Crystal Growth</i> , 2000 , 220, 413-424	1.6	9
54	Effect of self-degradation products on crystallization of protease thermolysin. <i>Journal of Crystal Growth</i> , 1994 , 139, 95-103	1.6	9
53	Direct Visualization of Quasi-Liquid Layers on Ice Crystal Surfaces Induced by Hydrogen Chloride Gas. <i>Crystal Growth and Design</i> , 2016 , 16, 2225-2230	3.5	9
52	Uptake Mechanism of Atmospheric Hydrogen Chloride Gas in Ice Crystals via Hydrochloric Acid Droplets. <i>Crystal Growth and Design</i> , 2018 , 18, 4117-4122	3.5	9
51	Fabrication of SiGe-on-Insulator through Thermal Diffusion of Ge on Si-on-Insulator Substrate. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L232-L234	1.4	8
50	Evidence of the Presence of Built-in Strain in Multicrystalline SiGe with Large Compositional Distribution. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4462-4465	1.4	8
49	Effect of supersaturation ratio on the growth rate and number of protease thermolysin crystals. <i>Journal of Crystal Growth</i> , 1994 , 135, 199-208	1.6	8
48	Colloidal crystallization utilizing interfaces of unidirectionally growing ice crystals. <i>Journal of Crystal Growth</i> , 2013 , 383, 67-71	1.6	7
47	Molecular beam epitaxy of GaAs on nearly lattice-matched SiGe substrates grown by the multicomponent zone-melting method. <i>Semiconductor Science and Technology</i> , 2001 , 16, 699-703	1.8	7
46	Control of Macroscopic Absorption Coefficient of Multicrystalline SiGe by Microscopic Compositional Distribution. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L37-L39	1.4	7
45	Fabrication of solar cell with stacked Ge islands for enhanced absorption in the infrared regime. <i>Thin Solid Films</i> , 2004 , 451-452, 604-607	2.2	6
44	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> , 2004 , 266, 467-474	1.6	6
43	In situ observation of the Marangoni convection in a NaCl aqueous solutions under microgravity. <i>Journal of Crystal Growth</i> , 2002 , 234, 516-522	1.6	6
42	Simultaneous in situ measurement of solute and temperature distributions in the alloy solutions. <i>Journal of Crystal Growth</i> , 2002 , 242, 313-320	1.6	6
41	High-Quality Crystalline Silicon Layer Grown by Liquid Phase Epitaxy Method at Low Growth Temperature. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L217-L219	1.4	6
40	Thickness dependence of stable structure of the Stranski-Krastanov mode in the GaPSb/GaP system. <i>Journal of Crystal Growth</i> , 2000 , 209, 637-647	1.6	6
39	In Situ Measurement of Composition in High-Temperature Solutions by X-Ray Fluorescence Spectrometry. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 5981-5982	1.4	6

38	Effect of Evaporation on Protein Crystals Grown in Semi-Solid Agarose Hydrogel. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 025502	1.4	6
37	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> , 2019 , 19, 116-124	3.5	6
36	An Approach to DNA Crystallization Using the Thermal Reversible Process of DNA Duplexes. <i>Crystal Growth and Design</i> , 2010 , 10, 1090-1095	3.5	5
35	In situ observation of elementary growth processes of protein crystals by advanced optical microscopy. <i>Protein and Peptide Letters</i> , 2012 , 19, 743-60	1.9	5
34	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> , 2005 , 22, 185	1	5
33	Effect of Evaporation on Protein Crystals Grown in Semi-Solid Agarose Hydrogel. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 025502	1.4	4
32	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> , 2002 , 89, 364-367	3.1	4
31	In situ observations of spiral growth on ice crystal surfaces. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
30	ATR FTIR Spectroscopic Study on Insect Body Surface Lipids Rich in Methylene-Interrupted Diene. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 12322-12330	3.4	4
29	Crystal-plane-dependent effects of antifreeze glycoprotein impurity for ice growth dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180393		3
28	In-situ observation of crystal surfaces by optical microscopy. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2016 , 62, 408-412	3.5	3
27	Surfaces of Ice 2013 , 305-348		3
26	First Direct Observation of Elementary Steps on the Surfaces of Glucose Isomerase Crystals under High Pressure. <i>Crystal Growth and Design</i> , 2010 , 10, 2020-2020	3.5	3
25	Intermixing of Ge and Si during exposure of GeH ₄ on Si. <i>Thin Solid Films</i> , 2006 , 508, 163-165	2.2	3
24	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> , 2002 , 312-314, 196-202	3.9	3
23	New growth method of oxide crystals by PO ₂ change applied to SmBa ₂ Cu ₃ O _x single crystals. <i>Journal of Crystal Growth</i> , 1999 , 205, 503-509	1.6	3
22	Growth of Y ₂ Cu ₂ O ₅ single crystals by the traveling solvent floating zone method. <i>Journal of Crystal Growth</i> , 1999 , 207, 206-213	1.6	3
21	Appearance and Disappearance of Quasi-Liquid Layers on Ice Crystals in the Presence of Nitric Acid Gas. <i>Crystals</i> , 2020 , 10, 72	2.3	2

20	High-Temperature Solution Growth and Characterization of Chromium Disilicide. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 7292-7293	1.4	2
19	Strain distribution of Si thin film grown on multicrystalline-SiGe with microscopic compositional distribution. <i>Journal of Applied Physics</i> , 2002 , 92, 7098-7101	2.5	2
18	Quasi-liquid Layers in Grooves of Grain Boundaries and on Grain Surfaces of Polycrystalline Ice Thin Films. <i>Crystal Growth and Design</i> , 2020 , 20, 7188-7196	3.5	2
17	HCl Droplets Induced Bunched Steps on Ice Crystal Surfaces under Atmospheric-Concentration HCl Gas. <i>Crystal Growth and Design</i> , 2021 , 21, 2508-2515	3.5	2
16	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> , 2022 , 119, e2115955119	11.5	2
15	Self-Organized Formation of Parallel-Banded Structures through Synchronization of Twisted Growth. <i>Crystal Growth and Design</i> , 2017 , 17, 3694-3699	3.5	1
14	Direct observation of bunching of elementary steps on protein crystals under forced flow conditions. <i>Theoretical and Applied Mechanics Letters</i> , 2015 , 5, 173-176	1.8	1
13	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> , 2014 , 14, 5303-5309	3.5	1
12	Influence of micro-impurity on protein crystal growth studied by the etch figure method. <i>Journal of Crystal Growth</i> , 2009 , 311, 548-552	1.6	1
11	In situ measurements of the solubility of protein crystals under high pressure. <i>Progress in Biotechnology</i> , 2002 , 117-122		1
10	Effects of pressure on growth kinetics of protein crystals. <i>Progress in Biotechnology</i> , 2002 , 19, 123-130		1
9	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> , 2020 , 20, 4852-4854	3.5	1
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