

Masahide Sato

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75
papers

652
citations

14
h-index

23
g-index

75
ext. papers

674
ext. citations

2.1
avg, IF

4.06
L-index

#	Paper	IF	Citations
75	Instabilities of steps induced by the drift of adatoms and effect of the step permeability. <i>Physical Review B</i> , 2000 , 62, 8452-8472	3.3	69
74	Morphological instability caused by asymmetry in step kinetics. <i>Physical Review B</i> , 1995 , 51, 11172-11175	3.3	63
73	Growth of step bunches formed by the drift of adatoms. <i>Surface Science</i> , 1999 , 442, 318-328	1.8	43
72	Fluctuations and instabilities of steps in the growth and sublimation of crystals. <i>Journal of Crystal Growth</i> , 1995 , 146, 164-170	1.6	33
71	Control of Chaotic Wandering of an Isolated Step by the Drift of Adatoms. <i>Physical Review Letters</i> , 1998 , 80, 4233-4236	7.4	30
70	Growth law of step bunches induced by the Ehrlich-Schwoebel effect in growth. <i>Surface Science</i> , 2001 , 493, 494-498	1.8	28
69	Repulsion-mediated step wandering on a Si(001) vicinal face. <i>Physical Review B</i> , 2003 , 67,	3.3	26
68	Wandering Instability of an Isolated Step with Direct Electric Current. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 2146-2151	1.5	26
67	Wandering and Bunching Instabilities of Steps Described By Nonlinear Evolution Equations. <i>Surface Review and Letters</i> , 1998 , 05, 841-849	1.1	25
66	Nonlinear Effect in Step Bunching Caused by Electric Current. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 1515-1518	1.5	23
65	Hierarchical Bunching of Steps in a Conserved System. <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 3675-3678	1.5	22
64	Step wandering induced by the drift of adatoms in a conserved system. <i>Physical Review B</i> , 2002 , 65,	3.3	19
63	Step bunching induced by drift of adatoms with anisotropic surface diffusion. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 43-46	1.6	14
62	Pattern formation in the instability of a vicinal surface by the drift of adatoms. <i>Physical Review E</i> , 1999 , 60, 7120-5	2.4	14
61	Formation of a crystal of Brownian particles under a uniform external force. <i>Physical Review E</i> , 2013 , 87,	2.4	13
60	Group chase and escape with some fast chasers. <i>Physical Review E</i> , 2012 , 86, 067102	2.4	11
59	Chasing and escaping by three groups of species. <i>Physical Review E</i> , 2012 , 85, 066102	2.4	10

58	Growth of Step Bunches on a Si(001) Vicinal Face with Drift of Adatoms. <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 1827-1832	1.5	10
57	Kinematical Bound States of Steps Caused by Asymmetry in Step Kinetics. <i>Journal of the Physical Society of Japan</i> , 1997 , 66, 1054-1062	1.5	9
56	Effect of container shape and walls on solidification of Brownian particles in a narrow system. <i>Physical Review E</i> , 2014 , 89, 042401	2.4	8
55	Crystallization of Brownian Particles from Walls Induced by a Uniform External Force. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 084804	1.5	8
54	Evaporation and impingement effects on drift-induced step instabilities on a Si(001) vicinal face. <i>Physical Review B</i> , 2005 , 72,	3.3	8
53	Ordering of Brownian particles from walls due to an external force. <i>Journal of Crystal Growth</i> , 2014 , 401, 87-92	1.6	7
52	Effect of step permeability on step instabilities due to alternation of kinetic coefficients on a growing vicinal face. <i>European Physical Journal B</i> , 2007 , 59, 311-318	1.2	7
51	Step Bunching with Alternation of Structural Parameters. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 2850-2855	1.5	7
50	Change of wandering pattern with anisotropy in step kinetics. <i>Journal of Crystal Growth</i> , 1999 , 198-199, 38-42	1.6	7
49	Step Instabilities on a Vicinal Face Induced by Flow in Solution. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 064606	1.5	6
48	Formation of finger-like step patterns on a Si(111) vicinal face. <i>Journal of Crystal Growth</i> , 2011 , 318, 14-17.6		6
47	Pattern formation of a step induced by a moving linear source. <i>Physical Review B</i> , 2011 , 84,	3.3	6
46	Self-Assembly Formed by Spherical Patchy Particles with Long-Range Attraction. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 104801	1.5	5
45	Crystallization of Brownian particles in thin systems constrained by walls. <i>Physical Review E</i> , 2014 , 90, 032404	2.4	5
44	Gravitational Tempering in Colloidal Epitaxy To Reduce Defects Further. <i>Crystal Growth and Design</i> , 2014 , 14, 2083-2086	3.5	5
43	Colloidal crystallization on tilted substrates under gravitational fields. <i>Journal of Crystal Growth</i> , 2014 , 401, 905-909	1.6	5
42	Two-Dimensional Crystal Structure Formed by Two Components of DNA Nanoparticles on a Substrate. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 074605	1.5	5
41	Effect of Patch Area and Interaction Length on Clusters and Structures Formed by One-Patch Particles in Thin Systems. <i>ACS Omega</i> , 2020 , 5, 28812-28822	3.9	4

40	Crystallization of Brownian Particles in a Pyramidal Pit by a Uniform External Force. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 044601	1.5	4
39	Growth Law of Bunch Size in Step Bunching Induced by Flow in Solution. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 024604	1.5	4
38	Effect of immobile impurities on motion of steps on a vicinal face. <i>Physical Review E</i> , 2011 , 84, 061604	2.4	4
37	Effect of Two-Dimensionality on Step Bunching on a Si(001) Vicinal Face. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 043601	1.5	4
36	Drift-induced step instabilities due to the gap in the diffusion coefficient. <i>Journal of Crystal Growth</i> , 2005 , 275, e129-e134	1.6	4
35	Effect of density change at crystallization on a one-dimensional heat balance equation at solid-liquid interface. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 045506	1.4	3
34	Change in the branch period of the step pattern formed by a moving linear source: initial coarsening and effect of an abrupt change in the velocity. <i>Journal of Crystal Growth</i> , 2013 , 362, 6-12	1.6	3
33	Step bunching induced by flow in solution. <i>Journal of Crystal Growth</i> , 2011 , 318, 5-9	1.6	3
32	Effect of immobile impurities on two-dimensional nucleation. <i>Physical Review E</i> , 2011 , 84, 021605	2.4	3
31	Motion of step pairs during drift-induced step bunching on a Si(001) vicinal face. <i>Journal of Crystal Growth</i> , 2007 , 303, 85-89	1.6	3
30	Step Bunching Induced by Immobile Impurities in a Surface Diffusion Field. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 114603	1.5	2
29	Dependence of the Apex Angle of an Inverted Pyramidal-Shaped Container on Crystallization of Brownian Particles. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 114601	1.5	2
28	Period of a comblike pattern controlled by atom supply and noise. <i>Physical Review E</i> , 2015 , 91, 012409	2.4	2
27	Effect of Flow in Solution on Motion of Steps during Solution Growth. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 074606	1.5	2
26	Two-Dimensional Motion of Unstable Steps Induced by Flow in Solution. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 074604	1.5	2
25	Effect of alternation of kinetic coefficients on step instabilities on Si(001) vicinal face. <i>Journal of Crystal Growth</i> , 2008 , 310, 1371-1375	1.6	2
24	Drift-Induced Step Instabilities on Si(111) Vicinal Face near $1/2$ Transition Temperature. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 064602	1.5	2
23	Growth of permeable step bunches formed by drift of adatoms. <i>Surface Science</i> , 2001 , 493, 480-484	1.8	2

22	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
21	Three-Dimensional Lattice Structure Formed in a Binary System with DNA Nanoparticles. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 064601	1.5	1
20	Effect of evaporation on step bunching induced by impurities. <i>Physical Review E</i> , 2018 , 97, 062801	2.4	1
19	Cluster diffusion on two-dimensional surface with immobile impurities. <i>Journal of Crystal Growth</i> , 2014 , 401, 504-507	1.6	1
18	Removal of defects in a colloidal crystal grown in an inverted pyramidal container by changing the external force. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 110301	1.4	1
17	Relation between the Step Pattern and the Velocity of the Moving Linear Adatom Source. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015 , 13, 269-274	0.7	1
16	Step wandering on Si(111) vicinal face near the $1 \times 17 \times 7$ transition temperature with drift of adatoms parallel to steps. <i>Physical Review E</i> , 2008 , 77, 062601	2.4	1
15	INSTABILITIES OF PERMEABLE STEPS INDUCED BY THE DRIFT OF ADATOMS. <i>Surface Review and Letters</i> , 2000 , 07, 607-611	1.1	1
14	Step Bunching Induced by the Drift of Adatoms.. <i>Hyomen Kagaku</i> , 1999 , 20, 824-829		1
13	Effect of the Interaction Length on Clusters Formed by Spherical One-Patch Particles on Flat Planes. <i>Langmuir</i> , 2021 , 37, 4213-4221	4	1
12	Effect of direction of an external force on crystallization of colloidal particles in a V-shaped groove by sedimentation. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 095601	1.4	1
11	Two-dimensional structures formed in a binary system of DNA nanoparticles with a short-range interaction potential. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 125002	1.4	1
10	Self-Assembly of Two-Dimensional Patchy Colloidal Dumbbells. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 064601	1.5	1
9	Formation of Step Bunches Induced by Flow in Solution. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 064601	1.5	0
8	Two mechanisms forming a comblike step pattern induced by a moving linear adatom source. <i>Physical Review E</i> , 2017 , 95, 032803	2.4	
7	Dependence of crystallization of Brownian particles by sedimentation on the force direction. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 115503	1.4	
6	Step Instabilities on Si(111) Vicinal Face near $1 \times \sqrt{3}$ Transition Temperature during Sublimation. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 124602	1.5	
5	Effect of impingement and evaporation on drift-induced step instabilities on Si(111) vicinal face near transition temperature. <i>Journal of Crystal Growth</i> , 2008 , 310, 1376-1379	1.6	

- 4 Effect of difference in interaction strength on two-dimensional lattice structure in a binary system with DNA nanoparticles. *Japanese Journal of Applied Physics*, **2017**, 56, 075001 1.4
- 3 Effect of the Surface Diffusion and Evaporation of Impurities on Step Bunching Induced by Impurities. *Journal of the Physical Society of Japan*, **2019**, 88, 114801 1.5
- 2 Clusters formed by dumbbell-like one-patch particles confined in thin systems. *Scientific Reports*, **2021**, 11, 18078 4.9
- 1 Effect of impurities on tiling in a two-dimensional dodecagonal quasicrystal. *Japanese Journal of Applied Physics*, **2022**, 61, 045504 1.4