

Yuuki Ishida

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100
papers

1,365
citations

20
h-index

32
g-index

102
ext. papers

1,432
ext. citations

1.3
avg, IF

3.66
L-index

#	Paper	IF	Citations
100	Localized exciton dynamics in strained cubic In _{0.1} Ga _{0.9} N/GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2001 , 79, 4319-4321	3.4	72
99	Raman studies on phonon modes in cubic AlGa _{0.9} N alloy. <i>Applied Physics Letters</i> , 1999 , 74, 191-193	3.4	67
98	Optical and structural studies in InGa _{0.9} N quantum well structure laser diodes. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 2177		66
97	Growth of cubic III-nitrides by gas source MBE using atomic nitrogen plasma: GaN, AlGa _{0.9} N and AlN. <i>Journal of Crystal Growth</i> , 1998 , 189-190, 390-394	1.6	65
96	Arsenic surfactant effects and arsenic mediated molecular beam epitaxial growth for cubic GaN. <i>Applied Physics Letters</i> , 1998 , 72, 3056-3058	3.4	57
95	Detection of defects in SiC crystalline films by Raman scattering. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 684-686	2.8	51
94	Influence of InN mole fraction on the recombination processes of localized excitons in strained cubic In _x Ga _{1-x} N/GaN multiple quantum wells. <i>Journal of Applied Physics</i> , 2003 , 93, 2051-2054	2.5	47
93	Optical Constants of Cubic GaN, AlN, and AlGa _{0.9} N Alloys. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, L497-L499	1.4	44
92	Recombination dynamics of localized excitons in cubic In _x Ga _{1-x} N/GaN multiple quantum wells grown by radio frequency molecular beam epitaxy on 3C-SiC substrate. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 4254		41
91	Atomically Flat 3C-SiC Epilayers by Low Pressure Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 6633-6637	1.4	34
90	The Electrical Characteristics of Metal-Oxide-Semiconductor Field Effect Transistors Fabricated on Cubic Silicon Carbide. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L625-L627	1.4	34
89	N-channel MOSFETs fabricated on homoepitaxy-grown 3C-SiC films. <i>IEEE Electron Device Letters</i> , 2003 , 24, 466-468	4.4	32
88	Effect of Reduced Pressure on 3C-SiC Heteroepitaxial Growth on Si by CVD. <i>Chemical Vapor Deposition</i> , 2006 , 12, 495-501		31
87	The growth of low resistivity, heavily Al-doped 4H-SiC thick epilayers by hot-wall chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2013 , 380, 85-92	1.6	30
86	Origin of Giant Step Bunching on 4H-SiC (0001) Surfaces. <i>Materials Science Forum</i> , 2008 , 600-603, 473-476.4		28
85	Growth and characterization of cubic AlGa _{0.9} N and AlN epilayers by RF-plasma assisted MBE. <i>Journal of Crystal Growth</i> , 1999 , 201-202, 341-345	1.6	24
84	In situ Observation of Clusters in Gas Phase during 4H-SiC Epitaxial Growth by Chemical Vapor Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 5140-5144	1.4	22

83	Influence of stacking faults on the performance of 4H-SiC Schottky barrier diodes fabricated on (112 0) face. <i>Applied Physics Letters</i> , 2002 , 81, 2974-2976	3.4	22
82	Investigation of Positron Moderator Materials for Electron-Linac-Based Slow Positron Beamlines. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 4636-4643	1.4	22
81	Growth and characterization of cubic InGaN epilayers on 3C-SiC by RF MBE. <i>Journal of Crystal Growth</i> , 2001 , 227-228, 471-475	1.6	20
80	Development of a Practical High-Rate CVD System. <i>Materials Science Forum</i> , 2008 , 600-603, 119-122	0.4	19
79	Dependence of stacking fault and twin densities on deposition conditions during 3C-SiC heteroepitaxial growth on on-axis Si(001) substrates. <i>Journal of Crystal Growth</i> , 2006 , 291, 140-147	1.6	19
78	Effect of Ar post-oxidation annealing on oxide/SiC interfaces studied by capacitance to voltage measurements and photoemission spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005 , 23, 298-303	2.9	19
77	Low Resistivity, Thick Heavily Al-Doped 4H-SiC Epilayers Grown by Hot-Wall Chemical Vapor Deposition. <i>Materials Science Forum</i> , 2013 , 740-742, 181-184	0.4	18
76	Reductions of twin and protrusion in 3C-SiC heteroepitaxial growth on Si(100). <i>Journal of Crystal Growth</i> , 2006 , 291, 148-153	1.6	18
75	Band gap bowing and exciton localization in strained cubic In _x Ga _{1-x} N films grown on 3C-SiC (001) by rf molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2001 , 79, 3600-3602	3.4	17
74	Characterization of Oxide Films on SiC by Spectroscopic Ellipsometry. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, L1054-L1056	1.4	17
73	Investigation of antiphase domain annihilation mechanism in 3C-SiC on Si substrates. <i>Journal of Applied Physics</i> , 2003 , 94, 4676-4689	2.5	15
72	Measurements of the Depth Profile of the Refractive Indices in Oxide Films on SiC by Spectroscopic Ellipsometry. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 800-804	1.4	15
71	In Situ Cleaning Process of Silicon Carbide Epitaxial Reactor. <i>ECS Journal of Solid State Science and Technology</i> , 2015 , 4, P137-P140	2	14
70	Raman scattering characterization of group III-nitride epitaxial layers including cubic phase. <i>Journal of Crystal Growth</i> , 1998 , 189-190, 435-438	1.6	14
69	Different pressure coefficients of the light emission in cubic and hexagonal InGa _N /Ga _N quantum wells. <i>Applied Physics Letters</i> , 2002 , 81, 232-234	3.4	14
68	High-Rate Epitaxial Growth of 4H-SiC Using a Vertical-Type, Quasi-Hot-Wall CVD Reactor. <i>Materials Science Forum</i> , 2002 , 389-393, 179-182	0.4	14
67	Elongated shaped Si Island Formation on 3C-SiC by Chemical Vapor Deposition and Its Application to Antiphase Domain Observation. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 3470-3474	1.4	14
66	Cleaning Process Applicable to Silicon Carbide Chemical Vapor Deposition Reactor. <i>ECS Journal of Solid State Science and Technology</i> , 2014 , 3, N3006-N3009	2	13

65	Repetition of In Situ Cleaning Using Chlorine Trifluoride Gas for Silicon Carbide Epitaxial Reactor. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, P12-P15	2	12
64	Shape Transformation of 4H-SiC Microtrenches by Hydrogen Annealing. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 041105	1.4	12
63	Influence of C/Si Ratio on the 4H-SiC (0001) Epitaxial Growth and a Keynote for High-Rate Growth. <i>Materials Science Forum</i> , 2004 , 457-460, 213-216	0.4	12
62	Epitaxial growth and characterization of thick multi-layer 4H-SiC for very high-voltage insulated gate bipolar transistors. <i>Journal of Applied Physics</i> , 2015 , 118, 085702	2.5	11
61	Light emission versus energy gap in group-III nitrides: hydrostatic pressure studies. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 225-231	1.3	11
60	Investigation of giant step bunching in 4H-SiC homoepitaxial growth: Proposal of cluster effect model. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 061301	1.4	9
59	Influence of Growth Conditions and Substrate Properties on Formation of Interfacial Dislocations and Dislocation Half-loop Arrays in 4H-SiC(0001) and (000-1) Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1069, 1		9
58	Reduction of defects propagating into 3C-SiC homoepilayers by reactive ion etching of 3C-SiC heteroepilayer substrates. <i>Journal of Crystal Growth</i> , 2007 , 308, 50-57	1.6	9
57	Optical Properties of Cubic InGaN/GaN Multiple Quantum Wells on 3C-SiC Substrates by Radio-Frequency Plasma-Assisted Molecular Beam Epitaxy. <i>Physica Status Solidi A</i> , 2001 , 188, 705-709		9
56	Pre-Growth Treatment of 4H-SiC Substrates by Hydrogen Etching at Low Pressure. <i>Materials Science Forum</i> , 2000 , 338-342, 1037-1040	0.4	9
55	Competitive Growth between Deposition and Etching in 4H-SiC CVD Epitaxy Using Quasi-Hot Wall Reactor. <i>Materials Science Forum</i> , 2000 , 338-342, 169-172	0.4	9
54	Optical Characterization of Cubic AlGaN Epilayers by Cathodoluminescence and Spectroscopic Ellipsometry. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 211-214	1.3	9
53	Hopping conduction range of heavily Al-doped 4H-SiC thick epilayers grown by CVD. <i>Applied Physics Express</i> , 2015 , 8, 121302	2.4	8
52	Epitaxial Growth of Thick Multi-Layer 4H-SiC for the Fabrication of Very High-Voltage C-Face n-Channel IGBT. <i>Materials Science Forum</i> , 2014 , 778-780, 135-138	0.4	8
51	Experimental Verification of the Cluster Effect on Giant Step Bunching on 4H-SiC (0001) Surfaces. <i>Materials Science Forum</i> , 2010 , 645-648, 543-546	0.4	8
50	Surface Reconstruction and As Surfactant Effects on MBE-Grown GaN Epilayers. <i>Materials Science Forum</i> , 1998 , 264-268, 1167-1172	0.4	7
49	Proposal of quasi thermal equilibrium model for etching phenomenon by gases: Example of the etching of 4H-SiC by H ₂ . <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 046501	1.4	6
48	Uniformity of 4H-SiC epitaxial layers grown on 3-in diameter substrates. <i>Journal of Crystal Growth</i> , 2003 , 258, 113-122	1.6	6

47	Investigation of Residual Impurities in 4H-SiC Epitaxial Layers Grown by Hot-Wall Chemical Vapor Deposition. <i>Materials Science Forum</i> , 2002 , 389-393, 215-218	0.4	6
46	Simulation of High-Temperature SiC Epitaxial Growth Using Vertical, Quasi-Hot-Wall CVD Reactor. <i>Materials Science Forum</i> , 2002 , 389-393, 227-230	0.4	6
45	Sensitive Detection of Defects in 4H-SiC by Raman Scattering. <i>Materials Science Forum</i> , 2002 , 389-393, 629-632	0.4	6
44	Comparative Study of Heteroepitaxially and Homoepitaxially Grown 3C-SiC Films. <i>Materials Science Forum</i> , 2002 , 389-393, 323-326	0.4	6
43	Surface Morphology of 3C-SiC Heteroepitaxial Layers Grown by LPCVD on Si Substrates. <i>Materials Science Forum</i> , 1998 , 264-268, 207-210	0.4	6
42	Transport phenomena in a slim vertical atmospheric pressure chemical vapor deposition reactor utilizing natural convection. <i>Materials Science in Semiconductor Processing</i> , 2017 , 71, 348-351	4.3	5
41	Simulation Studies on Giant Step Bunching in 4H-SiC Epitaxial Growth: Cluster Effect. <i>Materials Science Forum</i> , 2014 , 778-780, 183-186	0.4	5
40	Simulation Studies on Giant Step Bunching Accompanying Trapezoid-Shape Defects in 4H-SiC Epitaxial Layer. <i>Materials Science Forum</i> , 2014 , 778-780, 222-225	0.4	5
39	Positron Lifetime Study on Semiconductor Thin Films. <i>Materials Science Forum</i> , 1997 , 255-257, 714-717	0.4	5
38	Proposal of the Thermal Equilibrium Model for SiC Hydrogen Etching Phenomena. <i>Materials Science Forum</i> , 2006 , 527-529, 211-214	0.4	5
37	Epitaxial Growth of (11-20) 4H-SiC Using Substrate Grown in the [11-20] Direction. <i>Materials Science Forum</i> , 2002 , 389-393, 195-198	0.4	5
36	The APD Annihilation Mechanism of 3C-SiC Hetero-Epilayer on Si(001) Substrate. <i>Materials Science Forum</i> , 2000 , 338-342, 253-256	0.4	5
35	Reflector Influence on Rapid Heating of Minimal Manufacturing Chemical Vapor Deposition Reactor. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, P280-P284	2	5
34	Real time evaluation of silicon epitaxial growth process by exhaust gas measurement using quartz crystal microbalance. <i>Materials Science in Semiconductor Processing</i> , 2018 , 88, 192-197	4.3	5
33	Experiment on alleviating the bending of CVD-grown heavily Al-doped 4H-SiC epiwafer by codoping of N. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 04DP08	1.4	4
32	Advantages of a slim vertical gas channel at high SiHCl ₃ concentrations for atmospheric pressure silicon epitaxial growth. <i>Materials Science in Semiconductor Processing</i> , 2018 , 87, 13-18	4.3	4
31	Two-Dimensional Roughness Growth at Surface and Interface of SiO ₂ Films during Thermal Oxidation of 4H-SiC(0001). <i>Materials Science Forum</i> , 2012 , 717-720, 785-788	0.4	4
30	Pressure Coefficients of the Light Emission in Cubic InGa _N Epilayers and Cubic InGa _N /Ga _N Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 234, 759-763	1.3	4

29	Control of Surface Morphologies for Epitaxial Growth on Low Off-Angle 4H-SiC (0001) Substrates. <i>Materials Science Forum</i> , 2001 , 353-356, 135-138	0.4	4
28	Replication of Defects from 4H-SiC Wafer to Epitaxial Layer. <i>Materials Science Forum</i> , 2002 , 389-393, 447-450	0.4	4
27	3C-SiC(100) Homoepitaxial Growth by Chemical Vapor Deposition and Schottky Barrier Junction Characteristics. <i>Materials Science Forum</i> , 2002 , 389-393, 275-278	0.4	4
26	Schottky Barrier Characteristics of 3C-SiC Epilayers Grown by Low Pressure Chemical Vapor Deposition. <i>Materials Science Forum</i> , 2000 , 338-342, 1235-1238	0.4	4
25	CVD Growth Mechanism of 3C-SiC on Si Substrates. <i>Materials Science Forum</i> , 1998 , 264-268, 183-186	0.4	4
24	Investigation of the giant step bunching induced by the etching of 4H-SiC in Ar/H ₂ mix gases. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 095501	1.4	4
23	Cleaning Process for Using Chlorine Trifluoride Gas Silicon Carbide Chemical Vapor Deposition Reactor. <i>Materials Science Forum</i> , 2015 , 821-823, 125-128	0.4	3
22	Characterization of the Defect Evolution in Thick Heavily Al-Doped 4H-SiC Epilayers. <i>Materials Science Forum</i> , 2014 , 778-780, 151-154	0.4	3
21	Electrical Characterization at Cubic AlN/GaN Heterointerface Grown by Radio-Frequency Plasma-Assisted Molecular Beam Epitaxy. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 228, 599-602	1.3	3
20	The Investigation of 4H-SiC/SiO ₂ Interfaces by Optical and Electrical Measurements. <i>Materials Science Forum</i> , 2002 , 389-393, 1013-1016	0.4	3
19	Characterization of the Interfaces between SiC and Oxide Films by Spectroscopic Ellipsometry. <i>Materials Science Forum</i> , 2002 , 389-393, 1029-1032	0.4	3
18	Recent Developments in the High-Rate Growth of SiC Epitaxial Layers by the Chemical Vapor Deposition Method. <i>Journal of the Vacuum Society of Japan</i> , 2011 , 54, 346-352		3
17	RF-MBE growth of InN on 4H-SiC (0001) with off-angles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2016-2018		2
16	4H-SiC Carbon-Face Epitaxial Layers Grown by Low-Pressure Hot-Wall Chemical Vapor Deposition. <i>Materials Science Forum</i> , 2004 , 457-460, 209-212	0.4	2
15	Relationship between the Current Direction in the Inversion Layer and the Electrical Characteristics of Metal-Oxide-Semiconductor Field Effect Transistors on 3C-SiC. <i>Materials Science Forum</i> , 2004 , 457-460, 1405-1408	0.4	2
14	Photoemission Spectroscopic Studies on Oxide/SiC Interfaces Formed by Dry and Pyrogenic Oxidation. <i>Materials Science Forum</i> , 2004 , 457-460, 1341-1344	0.4	2
13	Investigation of the Relationship between Defects and Electrical Properties of 3C-SiC Epilayers. <i>Materials Science Forum</i> , 2002 , 389-393, 459-462	0.4	2
12	Coimplantation Effects of (C and Si)/Ga in 6H-SiC. <i>Materials Science Forum</i> , 2000 , 338-342, 917-920	0.4	2

11	The Characterization of SiC Hot-Implanted with Ga +. <i>Materials Science Forum</i> , 1998 , 264-268, 713-716	0.4	2
10	Suppressing Al memory effect on CVD growth of 4H-SiC epilayers by adding hydrogen chloride gas. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 04EP07	1.4	1
9	Suppression of Al Memory-Effect on Growing 4H-SiC Epilayers by Hot-Wall Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CP04	1.4	1
8	Influence of the Crystalline Quality of Epitaxial Layers on Inversion Channel Mobility in 4H-SiC MOSFETs. <i>Materials Science Forum</i> , 2002 , 389-393, 1053-1056	0.4	1
7	Observation of Cubic GaN/AlN Heterointerface Formation by RHEED in Plasma-Assisted Molecular Beam Epitaxy. <i>Materials Science Forum</i> , 2000 , 338-342, 1545-1548	0.4	1
6	Quartz crystal microbalance for real-time monitoring chlorosilane gas transport in slim vertical cold wall chemical vapor deposition reactor. <i>Materials Science in Semiconductor Processing</i> , 2020 , 106, 104759 ^{4,3}		1
5	Proposal of the mechanism for inclination growth on a mesa top during the 4H-SiC trench filling epitaxy. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 070307	1.4	
4	Anomalous pressure dependence of light emission in cubic InGaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 2682-2685		
3	Effects of Steam Annealing on Electrical Characteristics of 3C-SiC Metal-Oxide-Semiconductor Structures. <i>Materials Science Forum</i> , 2000 , 338-342, 1129-1132	0.4	
2	Similarities in the Optical Properties of Hexagonal and Cubic InGaN Quantum Wells. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 693, 722		
1	Piezoelectric Field and its Influence on the Pressure Behavior of the Light Emission from InGaN/GaN and GaN/AlGaIn Quantum Wells. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 693, 728		