Toshiyuki Isshiki

List of Publications by Year in descending order

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1040056 839539 73 498 9 18 citations g-index h-index papers 73 73 73 550 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Crystal structure analysis of stacking faults through scanning transmission electron microscopy of \hat{l}^2 -Ga ₂ O ₃ (001) layer grown via halide vapor phase epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 032701.	2.1	4
2	Broadband Optical Amplification of Waveguide Cutâ€Off Mode in Polymer Waveguide Doped with Graphene Quantum Dots. Advanced Optical Materials, 2022, 10, .	7.3	4
3	Formation of various-axis-oriented wurtzite nuclei and enlargement of the $\langle i \rangle$ a $\langle i \rangle$ -axis-oriented region in AlFeN films deposited on Si(100) substrates. Materials Advances, 2021, 2, 4075-4080.	5.4	O
4	Three-Dimensional Observation of Internal Defects in a β-Ga2O3 (001) Wafer Using the FIB–SEM Serial Sectioning Method. Journal of Electronic Materials, 2020, 49, 5190-5195.	2.2	9
5	Microstructure of Stacking Fault Complex/Carrot Defects at Interface Between 4H-SiC Epitaxial Layers and Substrates. Journal of Electronic Materials, 2020, 49, 5213-5218.	2.2	1
6	Electronic structure of AlFeN films exhibiting crystallographic orientation change from c- to a-axis with Fe concentrations and annealing effect. Scientific Reports, 2020, 10, 1819.	3.3	3
7	Observation of Dislocation Conversion in 4H-SiC Epitaxial Wafer by Mirror Projection Electron Microscopy. Materials Science Forum, 2019, 963, 251-254.	0.3	1
8	Au-nanoparticle-embedded cross-linked gelatin films synthesized on aqueous solution in contact with dielectric barrier discharge. Japanese Journal of Applied Physics, 2018, 57, 0102BE.	1.5	4
9	Surface Plasmon Resonances in Sn: In2O3 Thin Films with Diffraction Grating. Proceedings (mdpi), 2018, 2, .	0.2	O
10	Crystal Defect Analysis of Latent Scratch Induced during CMP Process on 4H-SiC Wafer Using Electron Microscopy. Materials Science Forum, 2018, 924, 531-534.	0.3	0
11	STEM and HRTEM studies of accumulated deposits on human tooth surface. Microscopy Research and Technique, 2017, 80, 511-524.	2.2	1
12	Three Dimensional Dislocation Analysis of Threading Mixed Dislocation Using Multi Directional Scanning Transmission Electron Microscopy. Materials Science Forum, 2017, 897, 173-176.	0.3	1
13	Band structure and photoconductivity of blue-green light absorbing AlTiN films. Journal of Materials Chemistry A, 2017, 5, 20824-20832.	10.3	10
14	Characterization of the surface morphology and grain growth near the surface of a block copolymer thin film with cylindrical microdomains oriented perpendicular to the surface. Polymer Journal, 2017, 49, 655-663.	2.7	4
15	Surface morphology and dislocation characteristics near the surface of 4H-SiC wafer using multi-directional scanning transmission electron microscopy. Journal of Electron Microscopy, 2017, 66, 337-347.	0.9	2
16	Cross Section and Plan View STEM Analysis on Identical Conversion Point of Basal Plane Dislocation to Threading Edge Dislocation of 4H-SiC. Materials Science Forum, 2016, 858, 397-400.	0.3	0
17	Crystallographic properties of 3d transition metal (Ti, V, and Cr) doped AlN films. , 2016, , .		O
18	Fine structure of tooth enamel in the yellowing human teeth: SEM and HRTEM studies. Microscopy Research and Technique, 2016, 79, 14-22.	2.2	12

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19	Structural Analysis of ZnO Thin Films Grown in Room Temperature on PET Film. Materials Science Forum, 2014, 778-780, 1201-1205.	0.3	O
20	Intriguing transmission electron microscopy images observed for perpendicularly oriented cylindrical microdomains of block copolymers. Nanoscale, 2014, 6, 10817-10823.	5.6	8
21	Reducing structural change in aluminum coated polyethylene naphthalate foils during MeV proton irradiation. Vacuum, 2013, 89, 153-156.	3.5	2
22	Dislocation Conversion in 4H-SiC Crystals Grown by Metastable Solvent Epitaxy. ECS Journal of Solid State Science and Technology, 2013, 2, N3092-N3097.	1.8	5
23	Frank Partial Dislocation in 4H-SiC Epitaxial Layer by MSE Method. Materials Science Forum, 2012, 725, 31-34.	0.3	6
24	Structural and electronic properties of Co-doped ZnO nanocrystals synthesized by co-precipitation method. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 213-216.	0.8	5
25	Effective catalyst on SiO2 in ethanol CVD for growth of single-walled carbon nanotubes. Diamond and Related Materials, 2008, 17, 1467-1470.	3.9	5
26	Multi-Wavelength Raman and HRTEM Study of Ni/Si Interface after NiSi Formation at Low Temperatures using Various Heating Methods. ECS Transactions, 2008, 13, 405-412.	0.5	1
27	Simultaneous Observation of Single-Walled Carbon Nanotubes and Catalyst Particles on SiO2Substrate by Transmission Electron Microscopy. Japanese Journal of Applied Physics, 2008, 47, 730-734.	1.5	5
28	Studies on the growth of pure double-walled carbon nanotube and its phonon spectra. Journal of Applied Physics, 2008, 103, 114305.	2.5	7
29	Preparation of Mesoporous Silica with Well-Defined Hexagonal Array of Pores by Using Octyltrimethylammonium Chloride. Bulletin of the Chemical Society of Japan, 2008, 81, 407-409.	3.2	7
30	Deep-UV Raman Scattering Analysis of Re-Crystallization in Ultra-Shallow Junction Implanted Si under Various Annealing Conditions., 2007,,.		0
31	Synthesis and Raman study of double-walled carbon nanotubes. Diamond and Related Materials, 2007, 16, 1188-1191.	3.9	8
32	Synthesis of Phosphate Glass Coating Film by Pulsed Laser Deposition. Zairyo/Journal of the Society of Materials Science, Japan, 2007, 56, 777-780.	0.2	1
33	Catalytic mechanism of a Fe–Co bimetallic system for efficient growth of single-walled carbon nanotubes on Siâ^•SiO2 substrates. Journal of Applied Physics, 2006, 100, 094303.	2.5	20
34	High-Resolution Transmission Electron Microscopy of Interfaces between thin Nickel Layers on Si(001) After Nickel Silicide Formation under Various Annealing Conditions. , 2006, , .		3
35	Non-Contact, Non-Destructive Characterization of Crystal Quality in Ultra-Shallow ion Implanted Silicon Wafers Before and after Annealing. , 2006, , .		1
36	Transmission electron microscopic observation of a metastable phase on the thermal decomposition process of Ca-deficient hydroxyapatite. Journal of Materials Science, 2006, 41, 525-530.	3.7	5

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37	Highly Aligned Growth of Carbon Nanotubes by RF-Plasma-Assisted DC Plasma Chemical Vapor Deposition at High Pressure. Japanese Journal of Applied Physics, 2006, 45, 8308-8310.	1.5	3
38	Transmission Electron Microscopic Study on Thermal Decomposition Process of Calcium-Deficient Hydroxyapatite. Key Engineering Materials, 2006, 317-318, 785-788.	0.4	0
39	Application of UV-Raman Spectroscopy for Characterization of the Physical Crystal Structure Following Flash Anneal of an Ultrashallow Implanted Layer. Journal of the Electrochemical Society, 2006, 153, G697.	2.9	16
40	Influence of Substrate Roughness on the Formation of Defects in 3C-SiC Grown on Si(110) Substrate by Hetero-Epitaxial CVD Method. Materials Science Forum, 2005, 483-485, 185-188.	0.3	5
41	Suppression Mechanism of Double Positioning Growth in 3C-SiC(111) Crystal by Using an Off-Axis Si(110) Substrate. Materials Science Forum, 2005, 483-485, 181-184.	0.3	13
42	Suppression of the Twin Formation in CVD Growth of (111) 3C-SiC on (110) Si Substrate. Materials Science Forum, 2005, 483-485, 193-196.	0.3	11
43	Heteroepitaxial growth of (111) 3C–SiC on well-lattice-matched (110) Si substrates by chemical vapor deposition. Applied Physics Letters, 2004, 84, 3082-3084.	3.3	72
44	A metastable phase in thermal decomposition of Ca-deficient hydroxyapatite. Journal of Materials Science: Materials in Medicine, 2003, 14, 617-622.	3.6	37
45	Transmission electron microscopic studies on an initial stage in the conversion process from α-tricalcium phosphate to hydroxyapatite. Journal of Materials Research, 2003, 18, 2633-2638.	2.6	14
46	Consolidation Mechanism of Calcium Silicate on Exposure to Carbon Dioxide. Zairyo/Journal of the Society of Materials Science, Japan, 2003, 52, 571-575.	0.2	5
47	Ferromagnetism and structural distortions induced in atomized Fe-AI (35–42 at.% AI) powder particles by cold milling. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 2013-2023.	0.6	13
48	Structure and growth mechanism of tetrapod-like ZnO particles. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1997, 76, 889-904.	0.6	55
49	A preparation method of sections of fine particles and cross-sectional transmission electron microscopy of Ni powder. Journal of Electron Microscopy, 1997, 46, 293-301.	0.9	10
50	Multi-slice calculation for InP crystals using different slices. Ultramicroscopy, 1994, 54, 301-309.	1.9	4
51	High-resolution transmission electron microscopy of hexagonal and rhombohedral molybdenum disulfide crystals. Microscopy Research and Technique, 1993, 25, 325-334.	2.2	9
52	Habit, structure and surface formation of Te particles deposited in a high-resolution transmission electron microscope. Journal of Crystal Growth, 1992, 125, 7-16.	1.5	4
53	Chemical element of the outermost layer of AgBr single crystal. Applied Surface Science, 1992, 55, 287-291.	6.1	0
54	Contrast of adsorbed or removed atoms in surface profile images by high- and ultra-high-resolution electron microscopy. Ultramicroscopy, 1992, 41, 201-209.	1.9	5

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55	Structures of grain boundaries in long-chain te crystals observed by high-resolution transmission electron microscopy. Microscopy Research and Technique, 1992, 23, 207-218.	2.2	1
56	High-resolution transmission electron microscopy of growth and structures of Ag-Te and Cu-Se crystals produced by solid-solid reactions. Journal of Crystal Growth, 1991, 112, 55-70.	1.5	8
57	Surface profile images of Te crystals by high-resolution transmission electron microscopy. Ultramicroscopy, 1989, 30, 329-336.	1.9	4
58	Growth and transformation of Cu-Te crystals produced by a solid-solid reaction. Journal of Crystal Growth, 1987, 83, 421-430.	1.5	6
59	High-resolution transmission electron microscopic observations of grain boundaries and surfaces on Cuî—,Te crystals grown by a solid-solid reaction. Ultramicroscopy, 1987, 23, 355-363.	1.9	8
60	TEM Observation of Defect Structure of Low-Energy Ion Implanted SiC. Materials Science Forum, 0, 778-780, 350-353.	0.3	1
61	Non Destructive Inspection of Dislocations in SiC Wafer by Mirror Projection Electron Microscopy. Materials Science Forum, 0, 778-780, 402-406.	0.3	6
62	Dislocation Analysis of 4H-SiC Using KOH Low Temperature Etching. Materials Science Forum, 0, 778-780, 358-361.	0.3	4
63	Study on Formation of Dislocation Contrast in 4H-SiC Wafer in Mirror Projection Electron Microscopy Image. Materials Science Forum, 0, 821-823, 307-310.	0.3	5
64	Relations between Surface Morphology and Dislocations of SiC Crystal. Materials Science Forum, 0, 821-823, 311-314.	0.3	4
65	Basal Plane Dislocation Analysis of 4H-SiC Using Multi Directional STEM Observation. Materials Science Forum, 0, 821-823, 303-306.	0.3	4
66	Observation of Pair Structures of Threading Dislocation and Surface Defect in 4H-SiC Wafer by Mirror Projection Electron Microscopy. Materials Science Forum, 0, 858, 371-375.	0.3	3
67	Observation of Basal Plane Dislocation in 4H-SiC Wafer by Mirror Projection Electron Microscopy and Low-Energy SEM. Materials Science Forum, 0, 897, 197-200.	0.3	4
68	Chemical Trend in Band Structure of 3d-Transition-Metal-Doped AlN Films. Materials Science Forum, 0, 924, 322-325.	0.3	2
69	Observation of a Latent Scratch on Chemo-Mechanical Polished 4H-SiC Wafer by Mirror Projection Electron Microscopy. Materials Science Forum, 0, 924, 543-546.	0.3	9
70	Review and Detail Classification of Stacking Faults in 4H-SiC Epitaxial Layer by Mirror Projection Electron Microscopy. Materials Science Forum, 0, 1004, 314-320.	0.3	1
71	Structural Characterization of Prismatic Stacking Faults of Two Types of Carrot Defects in 4H-SiC Epi Wafers. Materials Science Forum, 0, 1004, 421-426.	0.3	0
72	AFM Observation of Etch-Pit Shapes on β-Ga ₂ O ₃ (001) Surface Formed by Molten Alkali Etching. Materials Science Forum, 0, 1004, 512-518.	0.3	5

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73	Defects Characterization of GaN Substrate with Hot Implant Process. Materials Science Forum, 0, 1004, 497-504.	0.3	2