Atsushi Ogura

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8142799/publications.pdf

Version: 2024-02-01

353 papers 3,616 citations

236925 25 h-index 254184 43 g-index

353 all docs

353 docs citations

353 times ranked

2375 citing authors

#	Article	IF	CITATIONS
1	Raman spectra of size-selected silicon clusters and comparison with calculated structures. Nature, 1993, 366, 42-44.	27.8	393
2	Structures and coalescence behavior of size-selected silicon nanoclusters studied by surface-plasmon-polariton enhanced Raman spectroscopy. Journal of Chemical Physics, 1999, 110, 12161-12172.	3.0	87
3	UV-Raman Spectroscopy System for Local and Global Strain Measurements in Si. Japanese Journal of Applied Physics, 2006, 45, 3007-3011.	1.5	85
4	Gas source silicon molecular beam epitaxy using silane. Applied Physics Letters, 1987, 51, 2213-2215.	3.3	80
5	Improvement in ferroelectricity of Hf <i></i> O ₂ thin films using ZrO ₂ seed layer. Applied Physics Express, 2017, 10, 081501.	2.4	63
6	HfO2 growth by low-pressure chemical vapor deposition using the Hf(N(C2H5)2)4/O2 gas system. Journal of Crystal Growth, 2001, 233, 292-297.	1.5	62
7	Ferroelectricity of HfxZr1â^'xO2 thin films fabricated by 300 °C low temperature process with plasma-enhanced atomic layer deposition. Microelectronic Engineering, 2019, 215, 111013.	2.4	55
8	Multi-layered MoS2 film formed by high-temperature sputtering for enhancement-mode nMOSFETs. Japanese Journal of Applied Physics, 2015, 54, 04DN08.	1.5	53
9	Using tetrakis-diethylamido-hafnium for HfO2 thin-film growth in low-pressure chemical vapor deposition. Thin Solid Films, 2002, 406, 215-218.	1.8	46
10	Characterization of Si/GexSi1â^'x structures by micro-Raman imaging. Applied Physics Letters, 2004, 84, 2533-2535.	3.3	46
11	Improvement in ferroelectricity of HfxZr1 \hat{a} °xO2 thin films using top- and bottom-ZrO2 nucleation layers. APL Materials, 2019, 7, .	5.1	46
12	Analysis of Intra-Grain Defects in Multicrystalline Silicon Wafers by Photoluminescence Mapping and Spectroscopy. Japanese Journal of Applied Physics, 2006, 45, L641-L643.	1.5	43
13	Miniaturized planar Si-nanowire micro-thermoelectric generator using exuded thermal field for power generation. Science and Technology of Advanced Materials, 2018, 19, 443-453.	6.1	43
14	Lowâ€temperature redistribution of As in Si during Ni silicide formation. Journal of Applied Physics, 1984, 56, 2725-2728.	2.5	36
15	Low-Carrier-Density Sputtered MoS2 Film by Vapor-Phase Sulfurization. Journal of Electronic Materials, 2018, 47, 3497-3501.	2.2	36
16	Transverse-optical phonons excited in Si using a high-numerical-aperture lens. Applied Physics Letters, 2010, 96, .	3.3	34
17	Role of i-aSi:H Layers in aSi:H/cSi Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 1149-1155.	2.5	33
18	On the gate-stack origin threshold voltage variability in scaled FinFETs and multi-FinFETs. , 2010, , .		32

#	Article	IF	Citations
19	Strain-induced transconductance enhancement by pattern dependent oxidation in silicon nanowire field-effect transistors. Applied Physics Letters, 2007, 91, 202117.	3.3	29
20	Photoluminescence Analysis of Iron Contamination Effect in Multicrystalline Silicon Wafers for Solar Cells. Journal of Electronic Materials, 2010, 39, 747-750.	2.2	29
21	Channel strain analysis in high-performance damascene-gate p-metal-oxide-semiconductor field effect transistors using high-spatial resolution Raman spectroscopy. Journal of Applied Physics, 2010, 107, .	2.5	29
22	Interface engineering for the passivation of c-Si with O3-based atomic layer deposited AlOx for solar cell application. Applied Physics Letters, 2012, 100, .	3.3	29
23	Investigation on antireflection coating for high resistance to potential-induced degradation. Japanese Journal of Applied Physics, 2014, 53, 03CE01.	1.5	29
24	Nanoscale Wet Etching of Physical-Vapor-Deposited Titanium Nitride and Its Application to Sub-30-nm-Gate-Length Fin-Type Double-Gate Metal–Oxide–Semiconductor Field-Effect Transistor Fabrication. Japanese Journal of Applied Physics, 2010, 49, 06GH18.	1.5	27
25	Improving crystalline quality of sputtering-deposited MoS ₂ thin film by postdeposition sulfurization annealing using (t-C ₄ H ₉) ₂ S ₂ . Japanese Journal of Applied Physics, 2016, 55, 04EJ07.	1.5	26
26	Quantitative relationship between sputter-deposited-MoS ₂ properties and underlying-SiO ₂ surface roughness. Applied Physics Express, 2017, 10, 041202.	2.4	26
27	Novel technique for Si epitaxial lateral overgrowth: Tunnel epitaxy. Applied Physics Letters, 1989, 55, 2205-2207.	3.3	25
28	Microscopic and spectroscopic mapping of dislocation-related photoluminescence in multicrystalline silicon wafers. Journal of Materials Science: Materials in Electronics, 2008, 19, 132-134.	2.2	25
29	Positive and negative dipole layer formation at high-k/SiO ₂ interfaces simulated by classical molecular dynamics. Japanese Journal of Applied Physics, 2016, 55, 04EB03.	1.5	25
30	Characterization of Strain for High-Performance Metal–Oxide–Semiconductor Field-Effect-Transistor. Japanese Journal of Applied Physics, 2008, 47, 2538-2543.	1.5	24
31	Evaluation of defects generation in crystalline silicon ingot grown by cast technique with seed crystal for solar cells. Journal of Applied Physics, 2012, 111, 074505.	2.5	24
32	Improvement of SiO2 / Si Interface Flatness by Postâ€Oxidation Anneal. Journal of the Electrochemical Society, 1991, 138, 807-810.	2.9	23
33	Defect Analysis in Bonded and H + Split Silicon-on-Insulator Wafers by Photoluminescence Spectroscopy and Transmission Electron Microscopy. Japanese Journal of Applied Physics, 1998, 37, L1199-L1201.	1.5	23
34	A Comparative Study of Nitrogen Gas Flow Ratio Dependence on the Electrical Characteristics of Sputtered Titanium Nitride Gate Bulk Planar Metal–Oxide–Semiconductor Field-Effect Transistors and Fin-Type Metal–Oxide–Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2009, 48, 05DC01.	1.5	23
35	Interaction between Metal Impurities and Small-Angle Grain Boundaries on Recombination Properties in Multicrystalline Silicon for Solar Cells. Applied Physics Express, 2012, 5, 042301.	2.4	23
36	Volatile CVD precursor for Ni film: cyclopentadienylallylnickel. Journal of Crystal Growth, 2005, 275, e1115-e1119.	1.5	22

#	Article	IF	Citations
37	Demonstration of 1200V Scaled IGBTs Driven by 5V Gate Voltage with Superiorly Low Switching Loss. , 2018, , .		21
38	Infrared studies of silicon oxide formation in silicon wafers implanted with oxygen. Applied Physics Letters, 1998, 72, 2853-2855.	3.3	20
39	Annealing properties of defects during Si-on-insulator fabrication by low-dose oxygen implantation studied by monoenergetic positron beams. Journal of Applied Physics, 2000, 87, 1659-1665.	2.5	20
40	Vapor Pressure of Hf and Si Precursors for HfxSi1-xO2Deposition Evaluated by a Saturated Gas Technique. Japanese Journal of Applied Physics, 2004, 43, 966-967.	1.5	20
41	Nitrogen Gas Flow Ratio and Rapid Thermal Annealing Temperature Dependences of Sputtered Titanium Nitride Gate Work Function and Their Effect on Device Characteristics. Japanese Journal of Applied Physics, 2008, 47, 2433.	1.5	20
42	Evaluation of depth profile of defects in ultrathin Si film on buried SiO2 formed by implanted oxygen. Applied Physics Letters, 1996, 69, 1367-1369.	3.3	19
43	Hf1â°'xSixO2 deposition by metal organic chemical vapor deposition using the Hf(NEt2)4/SiH(NEt2)3/O2 gas system. Thin Solid Films, 2002, 416, 208-211.	1.8	19
44	Formation of a buried oxide film at the damage peak induced by oxygen implantation into a Si substrate. Applied Physics Letters, 1999, 74, 2188-2190.	3.3	18
45	Evaluation of buried oxide formation in low-dose SIMOX process. Applied Surface Science, 2000, 159-160, 104-110.	6.1	18
46	Effects of deposition conditions on step-coverage quality in low-pressure chemical vapor deposition of HfO2. Journal of Crystal Growth, 2002, 235, 365-370.	1.5	18
47	Biaxial stress evaluation in GeSn film epitaxially grown on Ge substrate by oil-immersion Raman spectroscopy. Japanese Journal of Applied Physics, 2016, 55, 091301.	1.5	18
48	Measurement of in-plane and depth strain profiles in strained-Si substrates. Solid-State Electronics, 2007, 51, 219-225.	1.4	17
49	High-mobility and low-parasitic resistance characteristics in strained Ge nanowire pMOSFETs with metal source/drain structure formed by doping-free processes. , 2012, , .		17
50	Advantage in solar cell efficiency of high-quality seed cast mono Si ingot. Applied Physics Express, 2015, 8, 062301.	2.4	17
51	Characteristics of Oxide TFT Using Carbon-Doped Ιn ₂ O ₃ Thin Film Fabricated by Low-Temperature ALD Using Ethylcyclopentadienyl Indium (Ιn-EtCp) and H ₂ O & O ₃ . ECS Transactions, 2019, 92, 3-13.	0.5	17
52	Improvement in ferroelectricity and breakdown voltage of over 20-nm-thick HfxZr1â^'xO2/ZrO2 bilayer by atomic layer deposition. Applied Physics Letters, 2020, 117, .	3.3	17
53	Extension of Dose Window for Lowâ€Dose Separation by Implanted Oxygen. Journal of the Electrochemical Society, 1998, 145, 1735-1737.	2.9	16
54	MOCVD precursors for Ta- and Hf-compound films. Journal of Crystal Growth, 2002, 237-239, 586-590.	1.5	16

#	Article	IF	CITATIONS
55	Ni Precursor for Chemical Vapor Deposition of NiSi. Japanese Journal of Applied Physics, 2004, 43, 1833-1836.	1.5	16
56	Quantitative analysis of impurities in solarâ€grade Si by photoluminescence spectroscopy around 20 K. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 792-795.	0.8	16
57	Plasma-enhanced chemical-vapor deposition of silicon nitride film for high resistance to potential-induced degradation. Japanese Journal of Applied Physics, 2015, 54, 08KD12.	1.5	16
58	Properties of single-layer MoS ₂ film fabricated by combination of sputtering deposition and post deposition sulfurization annealing using (t-C ₄ H ₉) ₂ S ₂ . Japanese Journal of Applied Physics, 2016, 55, 06GF01.	1.5	16
59	Improved leakage current properties of ZrO2/(Ta/Nb)Ox-Al2O3/ZrO2 nanolaminate insulating stacks for dynamic random access memory capacitors. Thin Solid Films, 2018, 655, 48-53.	1.8	16
60	Reduction of contact resistivity by As redistribution during Pd2Si formation. Journal of Applied Physics, 1983, 54, 4679-4682.	2.5	15
61	Study of Strain Induction for Metal–Oxide–Semiconductor Field-Effect Transistors using Transparent Dummy Gates and Stress Liners. Japanese Journal of Applied Physics, 2009, 48, 066508.	1.5	15
62	Study of the Degradation of p–n Diode Characteristics Caused by Small-Angle Grain Boundaries in Multi-Crystalline Silicon Substrate for Solar Cells. Japanese Journal of Applied Physics, 2009, 48, 121202.	1.5	15
63	Channel-Stress Enhancement Characteristics for Scaled pMOSFETs by Using Damascene Gate With Top-Cut Compressive Stress Liner and eSiGe. IEEE Transactions on Electron Devices, 2009, 56, 2778-2784.	3.0	15
64	Synthesis, characterization and application of intracellular Ag/AgCl nanohybrids biosynthesized in Scenedesmus sp. as neutral lipid inducer and antibacterial agent. Environmental Research, 2021, 201, 111499.	7.5	15
65	Precise Measurement of Strain Induced by Local Oxidation in Thin Silicon Layers of Silicon-on-Insulator Structures. Japanese Journal of Applied Physics, 1998, 37, 1282-1284.	1.5	14
66	In- and out-diffusion of oxygen during the buried-oxide formation in oxygen-implanted silicon. Journal of Applied Physics, 2000, 87, 7782-7787.	2.5	14
67	HfO2 and Hf1–xSixO2 Thin Films Grown by Metal-Organic CVD Using Tetrakis(diethylamido)hafnium. Chemical Vapor Deposition, 2006, 12, 130-135.	1.3	14
68	Transconductance enhancement of nanowire field-effect transistors by built-up stress induced during thermal oxidation. Applied Physics Letters, 2007, 91, .	3.3	14
69	Evaluation of super-critical thickness strained-Si on insulator (sc-SSOI) substrate. Solid-State Electronics, 2008, 52, 1845-1848.	1.4	14
70	Microscopic Distributions of Light Elements and Their Precipitates in Multicrystalline Silicon for Solar Cells. Japanese Journal of Applied Physics, 2010, 49, 110202.	1.5	14
71	Fin-Height Effect on Poly-Si/PVD-TiN Stacked-Gate FinFET Performance. IEEE Transactions on Electron Devices, 2012, 59, 647-653.	3.0	14
72	Butterfly-shaped distribution of SiN precipitates in multi-crystalline Si for solar cells. Journal of Crystal Growth, 2013, 377, 37-42.	1.5	14

#	Article	IF	CITATIONS
73	Minority Carrier Recombination Properties of Crystalline Defect on Silicon Surface Induced by Plasma Enhanced Chemical Vapor Deposition. ECS Journal of Solid State Science and Technology, 2016, 5, Q253-Q256.	1.8	14
74	Effects of Aluminum in Metallization Paste on the Electrical Losses in Bifacial N-type Crystalline Silicon Solar Cells. Energy Procedia, 2016, 98, 106-114.	1.8	14
75	Lowâ€temperature grain growth of initially ã€^100〉 textured polycrystalline silicon films amorphized by silicon ion implantation with normal incident angle. Journal of Applied Physics, 1986, 59, 289-291.	2.5	13
76	Crystallinity estimation of thin silicon-on-insulator layers by means of diffractometry using a highly parallel X-ray microbeam. Journal of Synchrotron Radiation, 2006, 13, 373-377.	2.4	13
77	Evaluation of Anisotropic Strain Relaxation in Strained Silicon-on-Insulator Nanostructure by Oil-Immersion Raman Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 02BA03.	1.5	13
78	GeSn Film Deposition Using Metal Organic Chemical Vapor Deposition. ECS Transactions, 2013, 53, 245-250.	0.5	13
79	Low-pressure chemical vapor deposition of TaCN films by pyrolysis of ethylamido-tantalum. Journal of Crystal Growth, 2000, 220, 604-609.	1.5	12
80	Formation of patterned buried insulating layer in Si substrates by He+ implantation and annealing in oxidation atmosphere. Applied Physics Letters, 2003, 82, 4480-4482.	3.3	12
81	Depth profiling of strain and defects in Siâ^•Si1â^'xGexâ^•Si heterostructures by micro-Raman imaging. Journal of Applied Physics, 2006, 100, 073511.	2.5	12
82	Mobility and Velocity Enhancement Effects of High Uniaxial Stress on Si (100) and (110) Substrates for Short-Channel pFETs. IEEE Transactions on Electron Devices, 2010, 57, 1295-1300.	3.0	12
83	Experimental Study of Physical-Vapor-Deposited Titanium Nitride Gate with An n ⁺ -Polycrystalline Silicon Capping Layer and Its Application to 20 nm Fin-Type Double-Gate Metal–Oxide–Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 04DC14.	1.5	12
84	Investigation of Phonon Deformation Potentials in Si $_{1-x}$ Ge $_{x}$ by Oil-Immersion Raman Spectroscopy. Applied Physics Express, 2012, 5, 111301.	2.4	12
85	Variability Analysis of Scaled Crystal Channel and Poly-Si Channel FinFETs. IEEE Transactions on Electron Devices, 2012, 59, 573-581.	3.0	12
86	Evaluation of Sputtering Deposited 2-Dimensional MoS ₂ Film by Raman Spectroscopy. Materials Research Society Symposia Proceedings, 2015, 1781, 11-16.	0.1	12
87	Large Scale Uniformity of Sputtering Deposited Single- and Few-Layer MoS2Investigated by XPS Multipoint Measurements and Histogram Analysis of Optical Contrast. ECS Journal of Solid State Science and Technology, 2016, 5, Q3012-Q3015.	1.8	12
88	Role of High-k Interlayer in ZrO ₂ /High-k/ZrO ₂ Insulating Multilayer on Electrical Properties for DRAM Capacitor. ECS Transactions, 2016, 75, 667-674.	0.5	12
89	Effects of thermal budget in n-type bifacial solar cell fabrication processes on effective lifetime of crystalline silicon. AIP Advances, 2017, 7, .	1.3	12
90	Quantification of C in Si by photoluminescence at liquid N temperature after electron irradiation. Applied Physics Express, 2017, 10, 046602.	2.4	12

#	Article	IF	CITATIONS
91	Determination of phonon deformation potentials and strain-shift coefficients in Ge-rich Si _{1â^'} <i> _x </i> using bulk Ge-rich Si _{1â^'} <i> _x </i> li> Ge-rich Si _{1â^'} <i> _x <i> li> Ge-rich Si_{1â^'} <i> _x <i> li> Ge-rich Si_{1â^'} <i> _x </i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>	1.5	12
92	Evaluation of Strained-Silicon by Electron Backscattering Pattern Measurement: Comparison Study with UV-Raman Measurement and Edge Force Model Calculation. Japanese Journal of Applied Physics, 2011, 50, 010111.	1.5	12
93	Ge ₂ Sb ₂ Te ₅ Film Fabrication by Tellurization of Chemical Vapor Deposited GeSb. Japanese Journal of Applied Physics, 2013, 52, 128006.	1.5	11
94	Evaluation of Anisotropic Biaxial Stress in Si _{1-X} Ge _x /Ge Mesa-Structure by Oil-Immersion Raman Spectroscopy. ECS Transactions, 2015, 66, 39-45.	0.5	11
95	Chemical Synthesis of Multilayered Nanostructured Perovskite Thin Films with Dielectric Features for Electric Capacitors. ACS Applied Nano Materials, 2018, 1, 915-921.	5.0	11
96	Oxygen-related defects and their annealing behavior in low-dose Separation-by-IMplanted OXygen (SIMOX) wafers studied by slow positron beams. Applied Surface Science, 2002, 194, 112-115.	6.1	10
97	Evaluation and Control of Strain in Si Induced by Patterned SiN Stressor. Electrochemical and Solid-State Letters, 2009, 12, H117.	2.2	10
98	Evaluation of local strain in Si using UV-Raman spectroscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 159-160, 206-211.	3.5	10
99	Evaluation of Strained-Silicon by Electron Backscattering Pattern Measurement: Comparison Study with UV-Raman Measurement and Edge Force Model Calculation. Japanese Journal of Applied Physics, 2011, 50, 010111.	1.5	10
100	Demonstration of Split-Gate Type Trigate Flash Memory With Highly Suppressed Over-Erase. IEEE Electron Device Letters, 2012, 33, 345-347.	3.9	10
101	Ge1-xSnx Epitaxial Growth on Ge Substrate by MOCVD. ECS Transactions, 2014, 64, 697-701.	0.5	10
102	Investigation of dislocations in Nb-doped SrTiO3 by electron-beam-induced current and transmission electron microscopy. Applied Physics Letters, 2015, 106, 102109.	3.3	10
103	MOCVD of Monolayer MoS2 using Novel Molybdenum Precursor i-Pr2DADMo(CO)3. MRS Advances, 2018, 3, 379-384.	0.9	10
104	Sputter-Deposited-MoS2 \${n}\$ MISFETs With Top-Gate and Al2O3 Passivation Under Low Thermal Budget for Large Area Integration. IEEE Journal of the Electron Devices Society, 2018, 6, 1246-1252.	2.1	10
105	Control of dipole properties in high-k and SiO2 stacks on Si substrates with tricolor superstructure. Applied Physics Letters, 2018, 113, .	3.3	10
106	Effect of additives in electrode paste of p-type crystalline Si solar cells on potential-induced degradation. Solar Energy, 2019, 188, 1292-1297.	6.1	10
107	Anomalous low energy phonon dispersion in bulk silicon-germanium observed by inelastic x-ray scattering. Applied Physics Letters, 2020, 116 , .	3.3	10
108	Germanium film on SiO2with a ã€^100〉 texture deposited by the rf sputtering technique. Applied Physics Letters, 1985, 47, 1059-1061.	3.3	9

#	Article	IF	CITATIONS
109	Defects in silicon-on-insulator wafers and their hydrogen interaction studied by monoenergetic positron beams. Journal of Applied Physics, 2002, 91, 6488.	2.5	9
110	Ni Thin Film Deposition from Tetrakistrifluorophosphine-Nickel. Japanese Journal of Applied Physics, 2005, 44, L315-L317.	1.5	9
111	Evaluation of Strain in Si-on-Insulator Substrate Induced by Si3N4Capping Film. Japanese Journal of Applied Physics, 2008, 47, 1465-1468.	1.5	9
112	Improvement of CVD SiO2 by Post Deposition Microwave Plasma Treatment. ECS Transactions, 2009, 19, 45-51.	0.5	9
113	Quantitative Analysis of Stress Relaxation in Transmission Electron Microscopy Samples by Raman Spectroscopy with a High-Numerical Aperture Lens. Japanese Journal of Applied Physics, 2011, 50, 04DA06.	1.5	9
114	Stress evaluation in thin strained-Si film by polarized Raman spectroscopy using localized surface plasmon resonance. Applied Physics Letters, 2012, 101, .	3.3	9
115	Synchrotron X-ray topography of supercritical-thickness strained silicon-on-insulator wafers for crystalline quality evaluation and electrical characterization using back-gate transistors. Current Applied Physics, 2012, 12, S69-S74.	2.4	9
116	Donor-acceptor pair luminescence in B and P compensated Si co-doped with Ga. Journal of Applied Physics, 2013, 113 , .	2.5	9
117	Growth of Ge Homoepitaxial Films by Metal-Organic Chemical Vapor Deposition Using t-C4H9GeH3. ECS Journal of Solid State Science and Technology, 2015, 4, P152-P154.	1.8	9
118	Determination of low carbon concentration in Czochralski-grown Si crystals for solar cells by luminescence activation using electron irradiation. Japanese Journal of Applied Physics, 2017, 56, 070305.	1.5	9
119	Origin of room-temperature photoluminescence around C-line in electron-irradiated Si and its applicability for quantification of carbon. Applied Physics Express, 2018, 11, 041301.	2.4	9
120	Ferroelectricity of Hf _x Zr _{1â^'x} O ₂ Thin Films Fabricated Using TiN Stressor and ZrO ₂ Nucleation Techniques. ECS Transactions, 2018, 86, 31-38.	0.5	9
121	Correlation between ferroelectricity and ferroelectric orthorhombic phase of HfxZr1â^'xO2 thin films using synchrotron x-ray analysis. APL Materials, 2021, 9, .	5.1	9
122	Improvement of Ferroelectricity and Fatigue Property of Thicker Hf _x Zr _{1â^'X} O ₂ /ZrO ₂ Bi-layer. ECS Transactions, 2020, 98, 63-70.	0.5	9
123	Impact of Light-Element Impurities on Crystalline Defect Generation in Silicon Wafer. Japanese Journal of Applied Physics, 2012, 51, 02BP08.	1.5	9
124	Characterization of surface imperfections of siliconâ€onâ€insulator wafers by means of extremely asymmetric xâ€ray reflection topography. Applied Physics Letters, 1996, 68, 693-695.	3.3	8
125	Depth profiles of As and B implanted into Si-on-insulator substrates. Thin Solid Films, 2001, 397, 56-62.	1.8	8
126	Formation of Buried Oxide Layer in Si Substrates by Oxygen Precipitation at Implantation Damage of Light Ions. Japanese Journal of Applied Physics, 2001, 40, L1075-L1077.	1.5	8

#	Article	IF	Citations
127	Evaluation of HfO2 film structures deposited by metal-organic chemical vapor deposition using Hf(N(C2H5)2)4/O2 gas system. Thin Solid Films, 2003, 441, 161-164.	1.8	8
128	Tris-diethylamino-silane Decomposition due to Tetrakis-diethylamido-hafnium in Hf1-xSixO2Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2003, 42, L578-L580.	1.5	8
129	Characterization of strained Si wafers by X-ray diffraction techniques. Journal of Materials Science: Materials in Electronics, 2008, 19, 189-193.	2.2	8
130	Chemical Vapor Deposition of GeSbTe Thin Films for Next-Generation Phase Change Memory. Japanese Journal of Applied Physics, 2010, 49, 05FF06.	1.5	8
131	Evaluation of Anisotropic Biaxial Stress by Raman Spectroscopy with a High Numerical Aperture Immersion Objective Lens. Japanese Journal of Applied Physics, 2010, 49, 04DA21.	1.5	8
132	Complementary Distribution of NN and NNO Complexes in Cast-Grown Multicrystalline Silicon for Photovoltaic Cells. Applied Physics Express, 2011, 4, 115601.	2.4	8
133	Electrical field analysis of metalâ€surface plasmon resonance using a biaxially strained Si substrate. Journal of Raman Spectroscopy, 2014, 45, 414-417.	2.5	8
134	Ge incorporated epitaxy of (110) rutile TiO2 on (100) Ge single crystal at low temperature by pulsed laser deposition. Thin Solid Films, 2015, 591, 105-110.	1.8	8
135	Examination of phonon deformation potentials for accurate strain measurements in silicon–germanium alloys with the whole composition range by Raman spectroscopy. Japanese Journal of Applied Physics, 2016, 55, 026602.	1.5	8
136	Improvement of smooth surface of RuO2 bottom electrode on Al2O3 buffer layer and characteristics of RuO2/TiO2/Al2O3/TiO2/RuO2 capacitors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	8
137	Evaluation of Laterally Graded Silicon Germanium Wires for Thermoelectric Devices Fabricated by Rapid Melting Growth. ECS Transactions, 2018, 86, 87-93.	0.5	8
138	Effects of substrate self-bias and nitrogen flow rate on non-polar AlN film growth by reactive sputtering. Japanese Journal of Applied Physics, 2019, 58, SDDG07.	1.5	8
139	Effects of damages induced by indium-tin-oxide reactive plasma deposition on minority carrier lifetime in silicon crystal. AIP Advances, 2019, 9, .	1.3	8
140	Atomic mass dependency of a localized phonon mode in SiGe alloys. AIP Advances, 2021, 11, .	1.3	8
141	Modification and Characterization of Interfacial Bonding for Thermal Management of Ruthenium Interconnects in Next-Generation Very-Large-Scale Integration Circuits. ACS Applied Materials & Samp; Interfaces, 2022, 14, 7392-7404.	8.0	8
142	Characterizing Metal-Oxide Semiconductor Structures Consisting of HfSiOxas Gate Dielectrics using Monoenergetic Positron Beams. Japanese Journal of Applied Physics, 2004, 43, 1254-1259.	1.5	7
143	Chemical vapor deposition of NiSi using Ni(PF3)4 and Si3H8. Thin Solid Films, 2007, 515, 8246-8249.	1.8	7
144	Investigation of Thermal Stability of TiN Film Formed by Atomic Layer Deposition Using Tetrakis(dimethylamino)titanium Precursor for Metal-Gate Metal–Oxide–Semiconductor Field-Effect Transistor. Japanese Journal of Applied Physics, 2010, 49, 04DA16.	1.5	7

#	Article	IF	CITATIONS
145	Impact of Light-Element Impurities on Crystalline Defect Generation in Silicon Wafer. Japanese Journal of Applied Physics, 2012, 51, 02BP08.	1.5	7
146	Polarized photoluminescence imaging analysis around small-angle grain boundaries in multicrystalline silicon wafers for solar cells. Japanese Journal of Applied Physics, 2014, 53, 080303.	1.5	7
147	Biaxial Stress Evaluation in SiGe Epitaxially Grown on Ge Substrate by Oil-Immersion Raman Spectroscopy. ECS Transactions, 2015, 69, 81-87.	0.5	7
148	Origin of additional broad peaks in Raman spectra from thin germanium-rich silicon–germanium films. Applied Physics Express, 2016, 9, 071301.	2.4	7
149	Local anisotropic strain evaluation in thin Ge epitaxial film using SiGe stressor template grown on Ge substrate by selective ion implantation. Japanese Journal of Applied Physics, 2017, 56, 110313.	1.5	7
150	Characterization of Glass Frit in Conductive Paste for N-Type Crystalline Silicon Solar Cells. IEEE Journal of Photovoltaics, 2017, 7, 1313-1318.	2.5	7
151	Evaluation of Sn-Doped Indium Oxide Film and Interface Properties on a-Si Formed by Reactive Plasma Deposition. ECS Journal of Solid State Science and Technology, 2019, 8, Q101-Q105.	1.8	7
152	Photoluminescence Analysis of Oxygen Precipitation around Small-Angle Grain Boundaries in Multicrystalline Silicon Wafers. Acta Physica Polonica A, 2014, 125, 1010-1012.	0.5	7
153	Evaluation of plasma induced defects on silicon substrate by solar cell fabrication process. Japanese Journal of Applied Physics, 2020, 59, 071003.	1.5	7
154	Evaluation of Anisotropic Strain Relaxation in Strained Silicon-on-Insulator Nanostructure by Oil-Immersion Raman Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 02BA03.	1.5	7
155	Observation on laserâ€annealed siliconâ€onâ€insulator structures by crossâ€sectional transmission electron microscopy. Journal of Applied Physics, 1987, 62, 4170-4173.	2.5	6
156	Highâ€speed video observation of laser recrystallization for semiconductorâ€onâ€insulator fabrication. Journal of Applied Physics, 1989, 65, 752-754.	2.5	6
157	Extremely thin and defectâ€free Siâ€onâ€insulator fabrication by tunnel epitaxy. Applied Physics Letters, 1990, 57, 2806-2807.	3.3	6
158	50â€nmâ€Thick Siliconâ€onâ€Insulator Fabrication by Advanced Epitaxial Lateral Overgrowth: Tunnel Epitaxy. Journal of the Electrochemical Society, 1993, 140, 1125-1130.	2.9	6
159	Two-Dimensional Anisotropic Lattice Deformation Observed in a Commercially Available Strained-Si Wafer. Japanese Journal of Applied Physics, 2006, 45, 8542-8548.	1.5	6
160	Composition Control of Ni Silicide by Chemical Vapor Deposition Using Ni(PF3)4and Si3H8. Japanese Journal of Applied Physics, 2007, 46, 474-477.	1.5	6
161	Channel-stress study on gate-size effects for damascene-Gate pMOSFETs with top-cut compressive stress liner and eSiGe., 2008,,.		6
162	Evaluation of Ge _x Sb _y Te _z Film Grown by Chemical Vapor Deposition. Materials Science Forum, 0, 725, 289-292.	0.3	6

#	Article	IF	Citations
163	Fabrication and Characterization of NOR-Type Tri-Gate Flash Memory with Improved Inter-Poly Dielectric Layer by Rapid Thermal Oxidation. Japanese Journal of Applied Physics, 2012, 51, 06FE19.	1.5	6
164	Formation of Si ₂ N ₂ O Microcrystalline Precipitates near the Quartz Crucible Wall Coated with Silicon Nitride in Cast-Grown Silicon. Applied Physics Express, 2013, 6, 081303.	2.4	6
165	Super-Resolution Raman Spectroscopy by Digital Image Processing. Journal of Spectroscopy, 2013, 2013, 1-9.	1.3	6
166	Evaluation of phonon confinement in ultrathin-film silicon-on-insulator by Raman spectroscopy. Japanese Journal of Applied Physics, 2014, 53, 032401.	1.5	6
167	Ge homoepitaxial growth by metal–organic chemical vapor deposition usingt-C4H9GeH3. Japanese Journal of Applied Physics, 2014, 53, 110301.	1.5	6
168	Influence of Al2O3 layer insertion on the electrical properties of Ga-In-Zn-O thin-film transistors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	6
169	Relationship between passivation properties and band alignment in O3-based atomic-layer-deposited AlOxon crystalline Si for photovoltaic applications. Japanese Journal of Applied Physics, 2015, 54, 08KD19.	1.5	6
170	Role of H2 supply for Sn incorporations in MOCVD Ge1â^'xSnx epitaxial growth. Journal of Crystal Growth, 2017, 468, 605-609.	1.5	6
171	Enhanced nickelidation rate in silicon nanowires with interfacial lattice disorder. Journal of Applied Physics, 2017, 122, .	2.5	6
172	Band gap-tuned MoS2($1\hat{a}^{\circ}$ 'x)Te2x thin films synthesized by a hybrid Co-sputtering and post-deposition tellurization annealing process. Journal of Materials Research, 2017, 32, 3021-3028.	2.6	6
173	Potential of chemical rounding for the performance enhancement of pyramid textured p-type emitters and bifacial n-PERT Si cells. Current Applied Physics, 2018, 18, 1268-1274.	2.4	6
174	3300V Scaled IGBTs Driven by 5V Gate Voltage. , 2019, , .		6
175	Effect of oxygen precipitation through annealing process on lifetime degradation by Czochralski-Si crystal growth conditions. Japanese Journal of Applied Physics, 2019, 58, SBBF02.	1.5	6
176	Comparison of characteristics of thin-film transistor with In ₂ O ₃ and carbon-doped In ₂ O ₃ channels by atomic layer deposition and post-metallization annealing in O ₃ . Japanese Journal of Applied Physics, 2021, 60, 030903.	1.5	6
177	Evaluation of correlation between fill factor and high mobility transparent conductive oxide film deposition temperature in the silicon heterojunction solar cells. Materials Science in Semiconductor Processing, 2021, 132, 105887.	4.0	6
178	Experimental Study of Physical-Vapor-Deposited Titanium Nitride Gate with An n+-Polycrystalline Silicon Capping Layer and Its Application to 20 nm Fin-Type Double-Gate Metal–Oxide–Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 04DC14.	1.5	6
179	Material Research on High-Quality Passivation Layers with Controlled Fixed Charge for Crystalline Silicon Solar Cells. Japanese Journal of Applied Physics, 2011, 50, 04DP09.	1.5	6
180	Normally-off sputtered-MoS2 nMISFETs with TiN top-gate electrode all defined by optical lithography for chip-level integration. Japanese Journal of Applied Physics, 2020, 59, 080906.	1.5	6

#	Article	IF	Citations
181	Grain growth of ã€^100〉 textured Ge on a SiO2/Si3N4stripe. Applied Physics Letters, 1988, 53, 22-24.	3.3	5
182	Oxygen-related defects in low-dose separation-by-implanted oxygen wafers probed by monoenergetic positron beams. Journal of Applied Physics, 2001, 90, 6026-6031.	2.5	5
183	Study of stress effect on replacement gate technology with compressive stress liner and eSiGe for pFETs., 2008,,.		5
184	Evaluation of Multi-Crystalline Silicon Substrates for Solar Cells by Raman Spectroscopy. ECS Transactions, 2010, 25, 33-39.	0.5	5
185	Photoluminescence due to impurity-cluster-bound exciton in highly doped and highly compensated Si. Japanese Journal of Applied Physics, 2015, 54, 111304.	1.5	5
186	Structural Analyses of Thin SiO ₂ Films Formed by Thermal Oxidation of Atomically Flat Si Surface by Using Synchrotron Radiation X-Ray Characterization. ECS Journal of Solid State Science and Technology, 2015, 4, N96-N98.	1.8	5
187	Prospectively of Carbon-Doped Indium-Tungsten-Oxide Channel TFT for Bias Stress Instability. ECS Transactions, 2016, 75, 149-156.	0.5	5
188	Determination of C concentration in P-doped n-type Czochralski-grown Si crystals by liquid N temperature photoluminescence after electron irradiation. Japanese Journal of Applied Physics, 2018, 57, 08RB06.	1.5	5
189	Effect of carbon doping on threshold voltage and mobility of In-Si-O thin-film transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 061206.	1.2	5
190	Suppression of Sulfur Desorption of High-Temperature Sputtered MoS2Film by Applying DC Bias. ECS Transactions, 2018, 85, 531-539.	0.5	5
191	Evaluation of saw damage using diamond-coated wire in crystalline silicon solar cells by photoluminescence imaging. Japanese Journal of Applied Physics, 2018, 57, 055702.	1.5	5
192	Lifetime Degradation by Oxygen Precipitation Combined with Metal Contamination in Czochralski Silicon for Solar Cells. ECS Journal of Solid State Science and Technology, 2019, 8, Q72-Q75.	1.8	5
193	Thermal conductivity and inelastic X-ray scattering measurements on SiGeSn polycrystalline alloy. Japanese Journal of Applied Physics, 2021, 60, SBBF11.	1.5	5
194	Observation of an Unidentified Phonon Peak in SiGe Alloys and Superlattices Using Molecular Dynamics Simulation. ECS Transactions, 2020, 98, 533-546.	0.5	5
195	X-ray evaluation of electronic and chemical properties and film structures in SiN passivation layer on crystalline Si solar cells. Japanese Journal of Applied Physics, 2015, 54, 08KD14.	1.5	5
196	Si/SiO2interface structures in laserâ€recrystallized Si on SiO2. Applied Physics Letters, 1989, 55, 547-549.	3.3	4
197	UV-Raman Spectroscopy Study on SiO2/Si Interface. ECS Transactions, 2009, 19, 55-66.	0.5	4
198	Study of Charge Trap Sites in SiN Films by Hard X-ray Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2010, 49, 04DD11.	1.5	4

#	Article	IF	Citations
199	Material Research on High-Quality Passivation Layers with Controlled Fixed Charge for Crystalline Silicon Solar Cells. Japanese Journal of Applied Physics, 2011, 50, 04DP09.	1.5	4
200	Combinatorial Synthesis Study of Passivation Layers for Solar Cell Applications. Materials Science Forum, 2012, 725, 161-164.	0.3	4
201	Channel Strain Measurement in 32-nm-Node Complementary Metal–Oxide–Semiconductor Field-Effect Transistor by Raman Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 04DA04.	1.5	4
202	Characterization of anisotropic strain relaxation after isolation for strained SGOI and SiGe/Si structure with newly developed high-NA and oil-immersion Raman method. Solid-State Electronics, 2013, 83, 46-49.	1.4	4
203	Tensor Evaluation of Anisotropic Stress Relaxation in Mesa-Shaped SiGe Layer on Si Substrate by Electron Back-Scattering Pattern Measurement: Comparison between Raman Measurement and Finite Element Method Simulation. Japanese Journal of Applied Physics, 2013, 52, 04CA06.	1.5	4
204	(Invited) Molecular Dynamics Simulation of Dipole Layer Formation at High-k/SiO2 Interfaces. ECS Transactions, 2014, 64, 3-15.	0.5	4
205	Nickel distribution and recombination activity in as-grown and annealed multicrystalline silicon. Japanese Journal of Applied Physics, 2014, 53, 04ER20.	1.5	4
206	Correlation between chemical-bonding states and fixed-charge states of Sr-silicate film on Si(100) substrate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	4
207	Oxygen precipitates distributed around random grain boundaries in a cast-grown multicrystalline silicon crystal. Japanese Journal of Applied Physics, 2016, 55, 041302.	1.5	4
208	Effects of Reaction Conditions on MoS2 Thin Film Formation Synthesized by Chemical Vapor Deposition using Organic Precursor. MRS Advances, 2017, 2, 1533-1538.	0.9	4
209	Evaluation of controlled strain in silicon nanowire by UV Raman spectroscopy. Japanese Journal of Applied Physics, 2017, 56, 06GG10.	1.5	4
210	Reliability of Al2O3/In-Si-O-C Thin-Film Transistors with an Al2O3 Passivation Layer under Gate-Bias Stress. ECS Transactions, 2018, 86, 135-145.	0.5	4
211	An Evaluation of Constituents in Paste for Silicon Solar Cells with Floating Contact Method: A Case Study of Tellurium Oxide Effects. SSRN Electronic Journal, 0, , .	0.4	4
212	Effects of surface recombination and excitation power on quantitative analysis of carbon in Si using room-temperature photoluminescence after electron irradiation. Japanese Journal of Applied Physics, 2019, 58, 076502.	1.5	4
213	Phonon dispersion of bulk Ge-rich SiGe: inelastic X-ray scattering studies. Japanese Journal of Applied Physics, 2020, 59, 061003.	1.5	4
214	Thermal conductivity characteristics in polycrystalline silicon with different average sizes of grain and nanostructures in the grains by UV Raman spectroscopy. Japanese Journal of Applied Physics, 2020, 59, 075501.	1.5	4
215	The Physical and Chemical Properties of MoS2($1\hat{a}^*x$)Te2 x Alloy Synthesized by Co-sputtering and Chalcogenization and Their Dependence on Fabrication Conditions. MRS Advances, 2020, 5, 1635-1642.	0.9	4
216	Investigation of the Chemical Reaction between Silver Electrodes and Transparent Conductive Oxide Films for the Improvement of Fill Factor of Silicon Heterojunction Solar Cells. ECS Journal of Solid State Science and Technology, 2021, 10, 055013.	1.8	4

#	Article	IF	Citations
217	Anomalous excitation-power dependence of band-edge emission in Si involving radiation-induced defects. Japanese Journal of Applied Physics, 2020, 59, 106502.	1.5	4
218	Evaluation of SOI Substrates by Positron Annihilation. Japanese Journal of Applied Physics, 2001, 40, 2903-2906.	1.5	3
219	Formation of epitaxially ordered SiO2 in oxygen-implanted silicon during thermal annealing. Journal of Crystal Growth, 2002, 236, 37-40.	1.5	3
220	Comparison of Silicon-on-Insulator Wafer Mappings between Photoluminescence Intensity and Microwave Photoconductivity Decay Lifetime. Japanese Journal of Applied Physics, 2004, 43, 432-438.	1.5	3
221	Surface reactions in Ni MOCVD using cyclopentadienylallylnickel as a precursor. Journal of Crystal Growth, 2005, 275, e1121-e1125.	1.5	3
222	Evaluation of poly-Si thin film crystallized by solid green laser annealing using UV/visible Raman spectroscopy. Journal of Materials Science: Materials in Electronics, 2008, 19, 122-126.	2.2	3
223	Evaluation of Properties of SiO ₂ Films Fabricated by Plasma Oxidation. ECS Transactions, 2011, 41, 169-175.	0.5	3
224	Measurement of Anisotropic Biaxial Stresses in Si1-xGex/Si Mesa Structures by Oil-Immersion Raman Spectroscopy. Japanese Journal of Applied Physics, 2013, 52, 04CA05.	1.5	3
225	Gate Structure Dependence of Variability in Polycrystalline Silicon Fin-Channel Flash Memories. Japanese Journal of Applied Physics, 2013, 52, 06GE01.	1.5	3
226	Tensor Evaluation of Stress Relaxation Profile in Strained SiGe Nanostructures on Si Substrate. ECS Transactions, 2013, 53, 207-214.	0.5	3
227	Detailed study of the effects of interface properties of ozone-based atomic layer deposited AlO _x on the surface passivation of crystalline silicon. Japanese Journal of Applied Physics, 2014, 53, 04ER06.	1.5	3
228	A study on the evaluation method of glass frit paste for crystalline silicon solar cells. , 2016, , .		3
229	Crystallinity Evaluation of Low Temperature Polycrystalline Silicon Thin Film Using UV/Visible Raman Spectroscopy. ECS Transactions, 2016, 72, 249-255.	0.5	3
230	Investigation of the static electric field effect of strontium silicate layers on silicon substrates. Journal of Applied Physics, 2017, 121, 225302.	2.5	3
231	Investigation on MoS2(1-x)Te2x Mixture Alloy Fabricated by Co-sputtering Deposition. MRS Advances, 2017, 2, 1557-1562.	0.9	3
232	The electrical losses induced by silver paste in n-type silicon solar cells. Japanese Journal of Applied Physics, 2017, 56, 102302.	1.5	3
233	Probing spatial heterogeneity in silicon thin films by Raman spectroscopy. Scientific Reports, 2017, 7, 16549.	3.3	3
234	Effect of Y and Mn doping into rutile type TiO2/Ge stack structure by combinatorial synthesis. Japanese Journal of Applied Physics, 2017, 56, 06GF11.	1.5	3

#	Article	IF	CITATIONS
235	Evaluation of Anisotropic Three-Dimensional Strain Relaxation in Stripe-Shaped Ge1-xSnx Mesa Structure. ECS Transactions, 2018, 86, 329-336.	0.5	3
236	Determination of Low C Concentration in Czochralski-Grown Si for Solar Cell Applications by Liquid-N-Temperature Photoluminescence After Electron Irradiation. Journal of Electronic Materials, 2018, 47, 5056-5060.	2.2	3
237	Normally-Off Sputtered-MoS ₂ nMISFETs with MoSi ₂ Contact by Sulfur Powder Annealing and ALD Al ₂ O ₃ Gate Dielectric for Chip Level Integration., 2019,,.		3
238	Crystal growth of a MnS buffer layer for non-polar AlN on Si (100) deposited by radio frequency magnetron sputtering. Japanese Journal of Applied Physics, 2019, 58, SBBK03.	1.5	3
239	Influence of adsorbed oxygen concentration on characteristics of carbon-doped indium oxide thin-film transistors under bias stress. Japanese Journal of Applied Physics, 2021, 60, SCCM01.	1.5	3
240	Dependency of a localized phonon mode intensity on compositional cluster size in SiGe alloys. AIP Advances, 2021, 11, 075017.	1.3	3
241	Detection limit of carbon concentration measurement in Si for photoluminescence method after electron irradiation. Japanese Journal of Applied Physics, 2020, 59, 126501.	1.5	3
242	Effects of particle size of aluminum powder in silver/aluminum paste on n-type solar cells. AIMS Materials Science, 2018, 5, 614-623.	1.4	3
243	Channel Strain Measurement in 32-nm-Node Complementary Metal–Oxide–Semiconductor Field-Effect Transistor by Raman Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 04DA04.	1.5	3
244	Nonseeded Crystalline Orientation Control for Si-on-Insulator Laser Recrystallization. Japanese Journal of Applied Physics, 1990, 29, 1630-1633.	1.5	2
245	Orientation Dependence of Silicon Oxidation Ratio in High-Pressure Water Vapor. Japanese Journal of Applied Physics, 2007, 46, 7619-7621.	1.5	2
246	Evaluation of Si3N4/Si interface by UV Raman spectroscopy. Applied Surface Science, 2008, 254, 6229-6231.	6.1	2
247	Transconductance Enhancement by Utilizing Pattern Dependent Oxidation in Silicon Nanowire Field-Effect Transistors. ECS Transactions, 2008, 13, 351-358.	0.5	2
248	Structural Change by Annealing Process at $\hat{1}$ £9 Grain Boundaries in Multicrystalline Silicon Substrate for Solar Cells. Electrochemical and Solid-State Letters, 2010, 13, B79.	2.2	2
249	Improvement of Spatial Resolution in Raman Spectroscopy Selecting Measurement Area by Opaque Material Deposition. Japanese Journal of Applied Physics, 2011, 50, 061301.	1.5	2
250	Combinatorial Investigation of ZrO ₂ -Based Dielectric Materials for Dynamic Random-Access Memory Capacitors. Japanese Journal of Applied Physics, 2011, 50, 06GH12.	1.5	2
251	Evaluation of Strained Silicon by Electron Back Scattering Pattern Compared with Raman Measurement and Edge Force Model Calculation. Key Engineering Materials, 2011, 470, 123-128.	0.4	2
252	Fabrication of Floating-Gate-Type Fin-Channel Double- and Tri-Gate Flash Memories and Comparative Study of Their Electrical Characteristics. Japanese Journal of Applied Physics, 2012, 51, 04DD03.	1.5	2

#	Article	IF	CITATIONS
253	Experimental Study of Floating-Gate-Type Metal–Oxide–Semiconductor Capacitors with Nanosize Triangular Cross-Sectional Tunnel Areas for Low Operating Voltage Flash Memory Application. Japanese Journal of Applied Physics, 2012, 51, 06FF01.	1.5	2
254	(Invited) FinFET Flash Memory Technology. ECS Transactions, 2012, 45, 289-310.	0.5	2
255	Behaviors of Fe and Ni at crystal defects in multi-crystalline silicon by intentional contamination and phosphorus gettering. , 2012, , .		2
256	Evaluation of Anisotropic Biaxial Stress in Thin Strained-SiGe Layer Using Surface Enhanced Raman Spectroscopy. ECS Transactions, 2014, 64, 841-847.	0.5	2
257	Influence of Al ₂ O ₃ Gate Dielectric on Transistor Properties for IGZO Thin Film Transistor. ECS Transactions, 2014, 61, 345-351.	0.5	2
258	Nanocrystalline-Si-dot multi-layers fabrication by chemical vapor deposition with H-plasma surface treatment and evaluation of structure and quantum confinement effects. AIP Advances, 2014, 4, 017133.	1.3	2
259	(Invited) Anisotropoic Strain Evaluation in the Finite Si Area by Surface Plasmon Enhanced Raman Spectroscopy. ECS Transactions, 2014, 64, 67-77.	0.5	2
260	Room-temperature photoluminescence evaluation of small-angle grain boundaries in multicrystalline silicon. Japanese Journal of Applied Physics, 2014, 53, 112401.	1.5	2
261	High-resolution X-ray microdiffraction from a locally strained SOI with a width of 150 nm. Journal of Physics: Conference Series, 2014, 502, 012026.	0.4	2
262	Passivation properties of aluminum oxide films deposited by mist chemical vapor deposition for solar cell applications. Japanese Journal of Applied Physics, 2015, 54, 08KD25.	1.5	2
263	Thin-film growth of (110) rutile TiO2on (100) Ge substrate by pulsed laser deposition. Japanese Journal of Applied Physics, 2016, 55, 06GG06.	1.5	2
264	Development of Interatomic Potential of Group IV Alloy Semiconductors for Lattice Dynamics Simulation. ECS Transactions, 2016, 75, 785-794.	0.5	2
265	Determination of Phonon Deformation Potentials in Carbon-Doped Silicon. ECS Transactions, 2018, 86, 419-425.	0.5	2
266	Strain Evaluation of Laser-Annealed SiGe Thin Layers. ECS Transactions, 2018, 86, 59-65.	0.5	2
267	Investigation on Mo _{1â^'} <i>_x </i> W <i>_x S₂ fabricated by co-sputtering and post-deposition sulfurization with (<i><t i="">-C₄H₉)₂S₂. Japanese Journal of Applied Physics, 2018, 57, 06HB04.</t></i></i>	1.5	2
268	Evaluation of Anisotropic Biaxial Stress Induced Around Trench Gate of Si Power Transistor Using Water-Immersion Raman Spectroscopy. Journal of Electronic Materials, 2018, 47, 5050-5055.	2.2	2
269	Anisotropic Biaxial Strain Evaluation in Carbon-Doped Silicon Using Water-Immersion Raman Spectroscopy. ECS Transactions, 2019, 92, 33-39.	0.5	2
270	Strain evaluation in Ge and Sn implanted Si layers with laser and rapid thermal annealing. Materials Science in Semiconductor Processing, 2020, 120, 105282.	4.0	2

#	Article	IF	Citations
271	Band alignment at non-polar AlN/MnS interface investigated by hard X-ray photoelectron spectroscopy. Japanese Journal of Applied Physics, 2020, 59, SIIG07.	1.5	2
272	Anisotropic biaxial stress evaluation in metal-organic chemical vapor deposition grown Ge1-Sn mesa structure by oil-immersion Raman spectroscopy. Thin Solid Films, 2020, 697, 137797.	1.8	2
273	Simulation study on lateral minority carrier transport in the surface inversion layer of the p-aSi:H/i-aSi:H/cSi heterojunction solar cell. Japanese Journal of Applied Physics, 2021, 60, 026503.	1.5	2
274	Quantitative Analysis of Stress Relaxation in Transmission Electron Microscopy Samples by Raman Spectroscopy with a High-Numerical Aperture Lens. Japanese Journal of Applied Physics, 2011, 50, 04DA06.	1.5	2
275	Fabrication and Characterization of NOR-Type Tri-Gate Flash Memory with Improved Inter-Poly Dielectric Layer by Rapid Thermal Oxidation. Japanese Journal of Applied Physics, 2012, 51, 06FE19.	1.5	2
276	Experimental Comparisons between Tetrakis(dimethylamino)titanium Precursor-Based Atomic-Layer-Deposited and Physical-Vapor-Deposited Titanium–Nitride Gate for High-Performance Fin-Type Metal–Oxide–Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2012, 51, 04DA05.	1.5	2
277	Interface Structures in Lateral Seeding Epitaxial Si on SiO2 Materials Research Society Symposia Proceedings, 1988, 138, 361.	0.1	1
278	Raman Spectroscopy of Size Selected, Matrix Isolated Si Clusters. Materials Research Society Symposia Proceedings, 1994, 332, 333.	0.1	1
279	Improvement in Characteristics of Thin Film Transistors upon High-Pressure Steam Annealing. Japanese Journal of Applied Physics, 2007, 46, 7208.	1.5	1
280	Effective Control of Strain in SOI by SiN Deposition. ECS Transactions, 2007, 6, 245-250.	0.5	1
281	New analysis of heavily doped boron and arsenic in shallow junctions by X-ray photoelectron spectroscopy., 2008,,.		1
282	Chemical Vapor Deposition Pt-Ni alloy Using Pt(PF3)4 and Ni(PF3)4. ECS Transactions, 2008, 13, 433-439.	0.5	1
283	W chemical-vapor deposition using (i-C3H7C5H4)2WH2. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 561-564.	2.1	1
284	Suppression of SiC surface roughening during high-temperature annealing by atmospheric control using purified Ar gas. Journal of Materials Research, 2010, 25, 708-710.	2.6	1
285	Composition control of Ge <inf>x</inf> Sb <inf>y</inf> Te <inf>z</inf> film for PCRAM application by chemical vapor deposition. , 2011, , .		1
286	Modelling of quantum dot solar cells for concentrator PV applications. , 2011, , .		1
287	High-Speed Deep-Level Luminescence Imaging in Multicrystalline Si Solar Cells. Materials Science Forum, 0, 725, 149-152.	0.3	1
288	EBIC Study on Metal Contamination at Intra Grain Defects in Multicrystalline Silicon for Solar Cells. Materials Science Forum, 0, 725, 129-132.	0.3	1

#	Article	IF	Citations
289	Evaluation of Silicon Substrates Fabricated by Seeding Cast Technique. Materials Science Forum, 0, 725, 133-136.	0.3	1
290	Experimental study of tri-gate SOI-FinFET flash memory. , 2012, , .		1
291	Comparative study of tri-gate- and double-gate-type poly-Si fin-channel split-gate flash memories. , 2012,		1
292	Angle-resolved photoelectron spectroscopy study on interfacial transition layer and oxidation-induced residual stress in Si(100) substrate near the interface. Microelectronic Engineering, 2013, 109, 197-199.	2.4	1
293	Structure Analyses of Room Temperature Deposited AlOxPassivation Films for Crystalline Silicon Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 122303.	1.5	1
294	Evaluation of the Silicon Ingot With Addition of SiCl\$_{f 4}\$ in Atmosphere During Unidirectional Solidification. IEEE Journal of Photovoltaics, 2014, 4, 581-584.	2.5	1
295	(Invited) Mobility Enhancement of Uniaxially Strained Germanium Nanowire MOSFETs. ECS Transactions, 2014, 64, 347-355.	0.5	1
296	Study on surface passivation by YZO/AlO <inf>x</inf> stacking double layer for crystalline Si solar cells. , 2014, , .		1
297	On the Origin of the Gate Oxide Failure Evaluated by Raman Spectroscopy. ECS Transactions, 2015, 66, 237-243.	0.5	1
298	Oil-Immersion Raman Spectroscopy for c-Plane GaN on Si and Al2O3 Substrates. ECS Transactions, 2015, 66, 119-126.	0.5	1
299	Detection of short range order in SiO2 thin-films by grazing-incidence wide and small-angle X-ray scattering. Journal of Applied Physics, 2016, 119, 154103.	2.5	1
300	In-Plane Biaxial Strain Evaluation Induced in Ge1-XSnx Films Using Oil-Immersion Raman Spectroscopy. ECS Transactions, 2016, 75, 589-597.	0.5	1
301	Electrically active light-element complexes in silicon crystals grown by cast method. Japanese Journal of Applied Physics, 2016, 55, 095502.	1.5	1
302	Pattern-dependent anisotropic stress evaluation in SiGe epitaxially grown on a Si substrate with selective Ar sup>+ion implantation using oil-immersion Raman spectroscopy. Japanese Journal of Applied Physics, 2017, 56, 051301.	1.5	1
303	Investigation of Novel Te precursor (i-C3H7)2Te for MoTe2 Fabrication. MRS Advances, 2018, 3, 321-326.	0.9	1
304	Distribution of light-element impurities in Si crystals grown by seed-casting method. Japanese Journal of Applied Physics, 2018, 57, 08RB19.	1.5	1
305	Study on chemical bonding states at electrode–silicon interface fabricated with fire-through control paste. Japanese Journal of Applied Physics, 2018, 57, 08RB23.	1.5	1
306	(Invited) High-Sn Concentration MOCVD-Grown Strained GeSn Thin Films Evaluated Using HAXPES and XRD Base on Synchrotron Technique. ECS Transactions, 2018, 86, 411-418.	0.5	1

#	Article	IF	CITATIONS
307	Evaluation of oxygen precipitation behavior in n-type Czochralski-Si for photovoltaic by infrared tomography: Effects of carbon concentration and annealing process conditions. Japanese Journal of Applied Physics, 2018, 57, 08RB01.	1.5	1
308	Evaluation of thermal conductivity characteristics in Si nanowire covered with oxide by UV Raman spectroscopy. Japanese Journal of Applied Physics, 2019, 58, SDDF04.	1.5	1
309	Evaluations of minority carrier lifetime in floating zone Si affected by Si insulated gate bipolar transistor processes. Japanese Journal of Applied Physics, 2019, 58, SBBD07.	1.5	1
310	Effect of post-deposition annealing on electrical properties and structures of aluminum oxide passivation film on a crystalline silicon substrate. Japanese Journal of Applied Physics, 2019, 58, 125502.	1.5	1
311	Enlargement of grain size for MoS2 film fabricated by RF magnetron sputtering with additional DC bias by optimization of deposition parameters and its evaluation with Raman spectroscopy. Japanese Journal of Applied Physics, 2020, 59, 065502.	1.5	1
312	Stress evaluation induced by wiggling silicon nitride fine pattern using Raman spectroscopy. Japanese Journal of Applied Physics, 2020, 59, SIIF03.	1.5	1
313	Focused Ion Beam Imaging of Defects in Multicrystalline Si for Photovoltaic Application. Acta Physica Polonica A, 2014, 125, 991-993.	0.5	1
314	Surface inversion layer effective minority carrier mobility as one of the measures of surface quality of the p-aSi:H/i-aSi:H/cSi heterojunction solar cell. Japanese Journal of Applied Physics, 2020, 59, SGGF06.	1.5	1
315	Improvement of Spatial Resolution in Raman Spectroscopy Selecting Measurement Area by Opaque Material Deposition. Japanese Journal of Applied Physics, 2011, 50, 061301.	1.5	1
316	Fabrication of Floating-Gate-Type Fin-Channel Double- and Tri-Gate Flash Memories and Comparative Study of Their Electrical Characteristics. Japanese Journal of Applied Physics, 2012, 51, 04DD03.	1.5	1
317	Experimental Study of Floating-Gate-Type Metal–Oxide–Semiconductor Capacitors with Nanosize Triangular Cross-Sectional Tunnel Areas for Low Operating Voltage Flash Memory Application. Japanese Journal of Applied Physics, 2012, 51, 06FF01.	1.5	1
318	The Electronic and Physical Structure Evaluation of MoS2(1â^'x)Te2x Alloy Fabricated with Co-Sputtering and Post-Deposition Annealing in Chalcogen Ambient. ECS Journal of Solid State Science and Technology, 2020, 9, 093018.	1.8	1
319	Effect of reactive gas condition on nonpolar AIN film growth on MnS/Si (100) by reactive DC sputtering. Japanese Journal of Applied Physics, 0, , .	1.5	1
320	Operando hard X-ray photoelectron spectroscopy study of buried interface chemistry of Au/InO1.16C0.04/Al2O3/p <mml:math altimg="si20.svg" display="inline" id="d1e383" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow mml:mrow=""><mml:mo></mml:mo></mml:mrow></mml:msup></mml:math> -Si stacks. Applied Surface	6.1	1
321	Science, 2022, 593, 153272. SOI formation by light ion implantation and annealing in oxygen including atmosphere., 2002,,.		O
322	Evaluation of commercial ultra-thin Si-on-insulator wafers using laser confocal inspection system. Thin Solid Films, 2005, 488, 189-193.	1.8	0
323	Relaxation of Strained-SOI substrates by RTA process. , 0, , .		0
324	Evaluation of Polycrystalline Silicon for Solar Cells by Small p-n Diode Array. Materials Research Society Symposia Proceedings, 2006, 974, 1.	0.1	0

#	Article	IF	Citations
325	Ni-silicide precursor for gate electrodes. Thin Solid Films, 2007, 515, 4980-4982.	1.8	O
326	Evaluation and Control of Strain in Si Induced by Patterned SiN Stressor. ECS Transactions, 2008, 13, 263-269.	0.5	0
327	Demonstration of Transconductance Enhancement on (110) and (001) Strained-Nanowire FETs. ECS Transactions, 2009, 25, 427-430.	0.5	0
328	Channel Strain Analysis in Damascene-gate pMOSFETs on Si (100) and (110) Substrate by Conventional and Cross-sectional Raman Spectroscopy. Materials Research Society Symposia Proceedings, 2009, 1194, 26.	0.1	0
329	Evaluation of Stress and Crystal Quality in Si During Shallow Trench Isolation by UV-Raman Spectroscopy. Journal of Electronic Materials, 2010, 39, 694-699.	2.2	0
330	Cross-Sectional UV-Raman Measurement for Obtaining Two-Dimensional Channel Stress Profile in Extremely High-Performance pMOSFETs. ECS Transactions, 2010, 28, 27-32.	0.5	0
331	Evaluation of Heavily Doped Poly-Si Thin Films Recrystallized by Excimer Laser Annealing Using UVâ·visible Raman Spectroscopy. , 2010, , .		0
332	Behavior of nickel silicide in multi-crystalline silicon for solar cells. Physics Procedia, 2011, 11, 163-166.	1.2	0
333	Effect of Plasma Treatment on Stress Reduction Induced by Shallow Trench Isolation Filled with Spin-on-Glass Dielectric. ECS Transactions, 2011, 41, 177-182.	0.5	0
334	Evaluation of Optical Properties for Nanocrystal Si Dot Layers Fabricated by CVD as a Function of Size Reduction. Materials Science Forum, 0, 725, 251-254.	0.3	0
335	Experimental Comparisons between Tetrakis(dimethylamino)titanium Precursor-Based Atomic-Layer-Deposited and Physical-Vapor-Deposited Titanium–Nitride Gate for High-Performance Fin-Type Metal–Oxide–Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2012, 51, 04DA05.	1.5	0
336	Evaluation of Quantum Confinement Effect in Nanocrystal Si Dot Layer by Raman Spectroscopy. Journal of Nanoscience and Nanotechnology, 2012, 12, 8700-8703.	0.9	0
337	Photoluminescence characterization of Si crystals for microelectronic and photovoltaic devices., 2015,,.		0
338	Effects of stacking passivation structure with interface tuning layer for crystalline Si solar cell applications, , $2015, $, .		0
339	Investigation of new stacking surface passivation structures with interfacial tuning layers on p-type crystalline silicon. Japanese Journal of Applied Physics, 2016, 55, 04ES03.	1.5	0
340	Room temperature formation of Hf-silicate layer by pulsed laser deposition with Hf-Si-O ternary reaction control. AIP Advances, 2016, 6, 105303.	1.3	0
341	Study of Sn and Mg doping effects on TiO ₂ /Ge stack structure by combinatorial synthesis. Japanese Journal of Applied Physics, 2018, 57, 04FJ04.	1.5	0
342	Switching of 3300V Scaled IGBT by 5V Gate Drive. , 2019, , .		0

#	Article	IF	CITATIONS
343	Temperature and polarity dependence of electrical properties of ZnO film on pyroelectric LiNbO3single crystal. Japanese Journal of Applied Physics, 2020, 59, SIIG11.	1.5	o
344	Synthesis of $\mathbb{MoS}_{\mathrm{MoS}_{\mathrm{C}}}\$ in the Physical Properties and Structure Depending on the Chalcogen Composition., 2020,,.		0
345	Evaluation of MoS2 Films Fabricated by Metal-Organic Chemical Vapor Deposition Using a Novel Mo Precursor i-Pr2DADMo(CO)3 Under Various Deposition Conditions. MRS Advances, 2020, 5, 1643-1652.	0.9	0
346	Quantification of Ge fraction using local vibrational modes in Raman spectra of silicon germanium by oil-immersion Raman spectroscopy. Japanese Journal of Applied Physics, 2020, 59, 075502.	1.5	0
347	Oxygen Precipitation Behavior in n-Type Cz-Si Related to Carbon Concentration and Crystal Growth Conditions. Journal of Electronic Materials, 2021, 50, 1474-1481.	2.2	O
348	Free-to-bound emission from interstitial carbon and oxygen defects (C _i O _i) in electron-irradiated Si. Applied Physics Express, 2021, 14, 011006.	2.4	0
349	Effects of Zn _x Mn _{1â^'x} S buffer layer on nonpolar AlN growth on Si (100) substrate. Japanese Journal of Applied Physics, 2021, 60, SCCG02.	1.5	O
350	Evaluation of $MoS_{2(1-x)}$ mathbf{Te}_{2x}\$ fabricated by different bottom-up methods. , 2021, , .		0
351	Phonon properties of group IV materials for thermoelectric applications. , 2021, , .		O
352	Origin of carrier lifetime degradation in floating-zone silicon during a high-temperature process for insulated gate bipolar transistor. Japanese Journal of Applied Physics, 2020, 59, 115503.	1.5	0
353	Detection Limit of Photoluminescence Method for Determination of Carbon Impurity Concentration in Silicon., 2022,,.		O