

# Shinichi Takagi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5077248/publications.pdf>

Version: 2024-02-01

259  
papers

7,935  
citations

87888

38  
h-index

66911

78  
g-index

259  
all docs

259  
docs citations

259  
times ranked

4310  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the universality of inversion layer mobility in Si MOSFET's: Part I-effects of substrate impurity concentration. IEEE Transactions on Electron Devices, 1994, 41, 2357-2362.	3.0	1,308
2	Carrier-Transport-Enhanced Channel CMOS for Improved Power Consumption and Performance. IEEE Transactions on Electron Devices, 2008, 55, 21-39.	3.0	324
3	Evidence of low interface trap density in GeO <sub>2</sub> /Ge metal-oxide-semiconductor structures fabricated by thermal oxidation. Applied Physics Letters, 2008, 93, .	3.3	299
4	Fabrication of strained Si on an ultrathin SiGe-on-insulator virtual substrate with a high-Ge fraction. Applied Physics Letters, 2001, 79, 1798-1800.	3.3	288
5	Experimental study on carrier transport mechanism in ultrathin-body SOI nand p-MOSFETs with SOI thickness less than 5 nm. , 0, , .		194
6	High-Mobility Ge p- and n-MOSFETs With 0.7-nm EOT Using $\text{HfO}_2/\text{Al}_2\text{O}_3/\text{GeO}_x/\text{Ge}$ Gate Stacks Fabricated by Plasma Postoxidation. IEEE Transactions on Electron Devices, 2013, 60, 927-934.	3.0	193
7	High-Mobility Ge pMOSFET With 1-nm EOT $\text{Al}_2\text{O}_3/\text{GeO}_x/\text{Ge}$ Gate Stack Fabricated by Plasma Post Oxidation. IEEE Transactions on Electron Devices, 2012, 59, 335-341.	3.0	168
8	Efficient low-loss InGaAsP/Si hybrid MOS optical modulator. Nature Photonics, 2017, 11, 486-490.	31.4	166
9	1-nm-capacitance-equivalent-thickness HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /InGaAs metal-oxide-semiconductor structure with low interface trap density and low gate leakage current density. Applied Physics Letters, 2012, 100, .	3.3	146
10	Al <sub>2</sub> O <sub>3</sub> /GeO <sub>x</sub> /Ge gate stacks with low interface trap density fabricated by electron cyclotron resonance plasma postoxidation. Applied Physics Letters, 2011, 98, .	3.3	143
11	Dark current reduction of Ge photodetector by GeO <sub>2</sub> surface passivation and gas-phase doping. Optics Express, 2012, 20, 8718.	3.4	138
12	Quantitative understanding of inversion-layer capacitance in Si MOSFET's. IEEE Transactions on Electron Devices, 1995, 42, 2125-2130.	3.0	137
13	Device structures and carrier transport properties of advanced CMOS using high mobility channels. Solid-State Electronics, 2007, 51, 526-536.	1.4	136
14	High mobility Ge-on-insulator p-channel MOSFETs using Pt germanide Schottky source/drain. IEEE Electron Device Letters, 2005, 26, 102-104.	3.9	125
15	Gate dielectric formation and MIS interface characterization on Ge. Microelectronic Engineering, 2007, 84, 2314-2319.	2.4	101
16	Surface orientation dependence of interface properties of GeO <sub>2</sub> /Ge metal-oxide-semiconductor structures fabricated by thermal oxidation. Journal of Applied Physics, 2009, 106, .	2.5	98
17	Ge metal-insulator-semiconductor structures with Ge <sub>3</sub> N <sub>4</sub> dielectrics by direct nitridation of Ge substrates. Applied Physics Letters, 2004, 85, 3181-3183.	3.3	89
18	High-Performance $\text{GeO}_2/\text{Ge}$ nMOSFETs With Source/Drain Junctions Formed by Gas-Phase Doping. IEEE Electron Device Letters, 2010, 31, 1092-1094.	3.9	86

#	ARTICLE	IF	CITATIONS
19	Role of germanium nitride interfacial layers in HfO <sub>2</sub> /germanium nitride/germanium metal-insulator-semiconductor structures. Applied Physics Letters, 2007, 90, 072911.	3.3	80
20	Novel Ge waveguide platform on Ge-on-insulator wafer for mid-infrared photonic integrated circuits. Optics Express, 2016, 24, 11855.	3.4	78
21	Thin Body III-V-Semiconductor-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors on Si Fabricated Using Direct Wafer Bonding. Applied Physics Express, 2009, 2, 124501.	2.4	77
22	High-mobility strained SiGe-on-insulator pMOSFETs with Ge-rich surface channels fabricated by local condensation technique. IEEE Electron Device Letters, 2005, 26, 243-245.	3.9	73
23	III-V/Ge channel MOS device technologies in nano CMOS era. Japanese Journal of Applied Physics, 2015, 54, 06FA01.	1.5	69
24	Improved Ferroelectric/Semiconductor Interface Properties in Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Ferroelectric FETs by Low-Temperature Annealing. IEEE Electron Device Letters, 2020, 41, 1588-1591.	3.9	65
25	III-V-semiconductor-on-insulator n-channel metal-insulator-semiconductor field-effect transistors with buried Al <sub>2</sub> O <sub>3</sub> layers and sulfur passivation: Reduction in carrier scattering at the bottom interface. Applied Physics Letters, 2010, 96, 142106.	3.3	64
26	High mobility CMOS technologies using III-V/Ge channels on Si platform. Solid-State Electronics, 2013, 88, 2-8.	1.4	64
27	Direct Observation of Interface Charge Behaviors in FeFET by Quasi-Static Split C-V and Hall Techniques: Revealing FeFET Operation. , 2019, , .		64
28	Pure germanium nitride formation by atomic nitrogen radicals for application to Ge metal-insulator-semiconductor structures. Journal of Applied Physics, 2006, 100, 014101.	2.5	63
29	Sub-10-nm Extremely Thin Body InGaAs-on-Insulator MOSFETs on Si Wafers With Ultrathin $\text{Al}_2\text{O}_3$ Buried Oxide Layers. IEEE Electron Device Letters, 2011, 32, 1218-1220.	3.9	60
30	High Performance Tri-Gate Extremely Thin-Body InAs-On-Insulator MOSFETs With High Short Channel Effect Immunity and $V_{th}$ Tunability. IEEE Transactions on Electron Devices, 2014, 61, 1354-1360.	3.0	57
31	Self-Aligned Metal Source/Drain InGaAs <sub>1-x</sub> As <sub>x</sub> n-Metal-Oxide-Semiconductor Field-Effect Transistors Using Ni-InGaAs Alloy. Applied Physics Express, 2011, 4, 024201.	2.4	53
32	High responsivity in MoS <sub>2</sub> phototransistors based on charge trapping HfO <sub>2</sub> dielectrics. Communications Materials, 2020, 1, .	6.9	51
33	New materials for post-Si computing: Ge and GeSn devices. MRS Bulletin, 2014, 39, 678-686.	3.5	50
34	High Electron Mobility Metal-Insulator-Semiconductor Field-Effect Transistors Fabricated on (111)-Oriented InGaAs Channels. Applied Physics Express, 2009, 2, 121101.	2.4	49
35	Impact of GeO <sub>x</sub> interfacial layer thickness on Al <sub>2</sub> O <sub>3</sub> /Ge MOS interface properties. Microelectronic Engineering, 2011, 88, 1533-1536.	2.4	49
36	Formation of III-V-on-insulator structures on Si by direct wafer bonding. Semiconductor Science and Technology, 2013, 28, 094009.	2.0	47

#	ARTICLE	IF	CITATIONS
37	Strain-induced enhancement of plasma dispersion effect and free-carrier absorption in SiGe optical modulators. <i>Scientific Reports</i> , 2014, 4, 4683.	3.3	45
38	High $\alpha$ and low subthreshold slope planar-type InGaAs tunnel field effect transistors with Zn-diffused source junctions. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	44
39	Impact of thermal annealing on Ge-on-Insulator substrate fabricated by wafer bonding. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 259-263.	4.0	44
40	Evaluation of polarization characteristics in metal/ferroelectric/semiconductor capacitors and ferroelectric field-effect transistors. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	44
41	1-nm-thick EOT high mobility Ge n- and p-MOSFETs with ultrathin GeO <sub>x</sub> /Ge MOS interfaces fabricated by plasma post oxidation. , 2011, , .		41
42	Reduction in interface state density of Al <sub>2</sub> O <sub>3</sub> /InGaAs metal-oxide-semiconductor interfaces by InGaAs surface nitridation. <i>Journal of Applied Physics</i> , 2012, 112, 073702.	2.5	41
43	III-V/Ge MOS device technologies for low power integrated systems. <i>Solid-State Electronics</i> , 2016, 125, 82-102.	1.4	41
44	Sub-60-nm Extremely Thin Body $\text{In}_x\text{Ga}_{1-x}\text{As}$ -On-Insulator MOSFETs on Si With Ni-InGaAs Metal S/D and MOS Interface Buffer Engineering and Its Scalability. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 2512-2517.	3.0	40
45	Strain Engineering of Plasma Dispersion Effect for SiGe Optical Modulators. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 8-16.	1.9	39
46	InGaAsP Photonic Wire Based Ultrasmall Arrayed Waveguide Grating Multiplexer on Si Wafer. <i>Applied Physics Express</i> , 2009, 2, 122201.	2.4	38
47	Impact of atomic layer deposition temperature on HfO <sub>2</sub> /InGaAs metal-oxide-semiconductor interface properties. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	38
48	High-Performance InAs-On-Insulator n-MOSFETs With Ni-InGaAs S/D Realized by Contact Resistance Reduction Technology. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 3342-3350.	3.0	38
49	Ge/Si Heterojunction Tunnel Field-Effect Transistors and Their Post Metallization Annealing Effect. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 9-15.	3.0	37
50	Impact of Plasma Postoxidation Temperature on the Electrical Properties of $\text{Al}_2\text{O}_3/\text{GeO}_x/\text{Ge}$ pMOSFETs and nMOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 416-422.	3.0	34
51	Extremely-thin-body InGaAs-on-insulator MOSFETs on Si fabricated by direct wafer bonding. , 2010, , .		33
52	Suppression of ALD-Induced Degradation of Ge MOS Interface Properties by Low Power Plasma Nitridation of GeO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , 2011, 158, G178.	2.9	30
53	Ge gate stacks based on Ge oxide interfacial layers and the impact on MOS device properties. <i>Microelectronic Engineering</i> , 2013, 109, 389-395.	2.4	30
54	Impact of InGaAs surface nitridation on interface properties of InGaAs metal-oxide-semiconductor capacitors using electron cyclotron resonance plasma sputtering SiO <sub>2</sub> . <i>Applied Physics Letters</i> , 2010, 97, 132102.	3.3	29

#	ARTICLE	IF	CITATIONS
55	Examination of Additive Mobility Enhancements for Uniaxial Stress Combined with Biaxially Strained Si, Biaxially Strained SiGe and Ge Channel MOSFETs. , 2007, , .		28
56	Epitaxial lateral overgrowth of InGaAs on SiO <sub>2</sub> from (111) Si micro channel areas. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2733-2735.	0.8	28
57	Dislocation-Free InGaAs on Si(111) Using Micro-Channel Selective-Area Metalorganic Vapor Phase Epitaxy. Applied Physics Express, 2009, 2, 011101.	2.4	28
58	A Novel Characterization Scheme of $\text{Si/SiO}_2$ Interface Roughness for Surface Roughness Scattering-Limited Mobilities of Electrons and Holes in Unstrained- and Strained-Si MOSFETs. IEEE Transactions on Electron Devices, 2010, 57, 2057-2066.	3.0	28
59	High Performance Extremely Thin Body InGaAs-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors on Si Substrates with Ni-InGaAs Metal Source/Drain. Applied Physics Express, 2011, 4, 114201.	2.4	28
60	Experimental Study on Electron Mobility in In <sub>x</sub> Ga <sub>1-x</sub> As-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors With In Content Modulation and MOS Interface Buffer Engineering. IEEE Nanotechnology Magazine, 2013, 12, 621-628.	2.0	28
61	Suppression of dark current in GeO <sub>x</sub> -passivated germanium metal-semiconductor-metal photodetector by plasma post-oxidation. Optics Express, 2015, 23, 16967.	3.4	28
62	Impact of Fermi level pinning inside conduction band on electron mobility in InGaAs metal-oxide-semiconductor field-effect transistors. Applied Physics Letters, 2013, 103, .	3.3	27
63	Evaluation of the valence band discontinuity of Si/Si <sub>1-x</sub> Ge <sub>x</sub> /Si heterostructures by application of admittance spectroscopy to MOS capacitors. IEEE Transactions on Electron Devices, 1998, 45, 494-501.	3.0	26
64	III-V/Ge High Mobility Channel Integration of InGaAs n-Channel and Ge p-Channel Metal-Oxide-Semiconductor Field-Effect Transistors with Self-Aligned Ni-Based Metal Source/Drain Using Direct Wafer Bonding. Applied Physics Express, 2012, 5, 076501.	2.4	26
65	Electron Mobility Enhancement of Extremely Thin In <sub>0.7</sub> Ga <sub>0.3</sub> As-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors on Si Substrates by Metal-Oxide-Semiconductor Interface Buffer Layers. Applied Physics Express, 2012, 5, 014201.	2.4	26
66	Direct wafer bonding technology for large-scale InGaAs-on-insulator transistors. Applied Physics Letters, 2014, 105, .	3.3	26
67	Experimental study on carrier transport properties in extremely-thin body Ge-on-insulator (GOI) p-MOSFETs with GOI thickness down to 2 nm. , 2015, , .		26
68	Highly strained-SiGe-on-insulator p-channel metal-oxide-semiconductor field-effective transistors fabricated by applying Ge condensation technique to strained-Si-on-insulator substrates. Applied Physics Letters, 2011, 99, .	3.3	25
69	Impact of Fermi Level Pinning Due to Interface Traps Inside the Conduction Band on the Inversion-Layer Mobility in In <sub>x</sub> Ga <sub>1-x</sub> As Metal-Oxide-Semiconductor Field Effect Transistors. IEEE Transactions on Device and Materials Reliability, 2013, 13, 456-462.	2.0	25
70	Effects of ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Gate-Stack on the Performance of Planar-Type InGaAs TFET. IEEE Transactions on Electron Devices, 2019, 66, 1862-1867.	3.0	25
71	Enhancement technologies and physical understanding of electron mobility in III-V n-MOSFETs with strain and MOS interface buffer engineering. , 2011, , .		24
72	Planar-type In <sub>0.53</sub> Ga <sub>0.47</sub> As channel band-to-band tunneling metal-oxide-semiconductor field-effect transistors. Journal of Applied Physics, 2011, 110, .	2.5	24

#	ARTICLE	IF	CITATIONS
73	Impact of Channel Orientation on Electrical Properties of Ge p- and n-MOSFETs With 1-nm EOT Al <sub>2</sub> O <sub>3</sub> /GeO <sub>x</sub> /Ge Gate-Stacks Fabricated by Plasma Postoxidation. IEEE Transactions on Electron Devices, 2014, 61, 3668-3675.	3.0	24
74	Effect of Ga content on crystal shape in micro-channel selective-area MOVPE of InGaAs on Si. Journal of Crystal Growth, 2008, 310, 4768-4771.	1.5	23
75	On Surface Roughness Scattering-Limited Mobilities of Electrons and Holes in Biaxially Tensile-Strained Si MOSFETs. IEEE Electron Device Letters, 2009, 30, 987-989.	3.9	23
76	Impact of Fermi level pinning inside conduction band on electron mobility of In <sub>0.53</sub> Ga <sub>0.47</sub> As MOSFETs and mobility enhancement by pinning modulation. , 2011, , .		23
77	Strained In <sub>0.53</sub> Ga <sub>0.47</sub> As metal-oxide-semiconductor field-effect transistors with epitaxial based biaxial strain. Applied Physics Letters, 2012, 100, 193510.	3.3	23
78	Atomic layer-by-layer oxidation of Ge (100) and (111) surfaces by plasma post oxidation of Al <sub>2</sub> O <sub>3</sub> /Ge structures. Applied Physics Letters, 2013, 102, .	3.3	22
79	Self-aligned Ni-GaSb source/drain junctions for GaSb p-channel metal-oxide-semiconductor field-effect transistors. Applied Physics Letters, 2014, 104, 093509.	3.3	22
80	Slow Trap Properties and Generation in Al <sub>2</sub> O <sub>3</sub> /GeO <sub>x</sub> /Ge MOS Interfaces Formed by Plasma Oxidation Process. ACS Applied Electronic Materials, 2019, 1, 311-317.	4.3	22
81	Self-aligned metal source/drain InP n-metal-oxide-semiconductor field-effect transistors using Ni-InP metallic alloy. Applied Physics Letters, 2011, 98, 243501.	3.3	21
82	Tunnel field-effect transistors with germanium/strained-silicon hetero-junctions for low power applications. Thin Solid Films, 2014, 557, 298-301.	1.8	21
83	Impact of interfacial InAs layers on Al <sub>2</sub> O <sub>3</sub> /GaSb metal-oxide-semiconductor interface properties. Applied Physics Letters, 2015, 106, .	3.3	21
84	Interface-Controlled Self-Align Source/Drain Ge p-Channel Metal-Oxide-Semiconductor Field-Effect Transistors Fabricated Using Thermally Oxidized GeO <sub>2</sub> Interfacial Layers. Japanese Journal of Applied Physics, 2011, 50, 010109.	1.5	21
85	Physical origins of mobility enhancement of Ge p-channel metal-insulator-semiconductor field effect transistors with Si passivation layers. Journal of Applied Physics, 2010, 108, 104511.	2.5	20
86	Ultrathin Body InGaAs-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors with InP Passivation Layers on Si Substrates Fabricated by Direct Wafer Bonding. Applied Physics Express, 2011, 4, 054202.	2.4	20
87	Reduction in Interface Trap Density of Al <sub>2</sub> O <sub>3</sub> /SiGe Gate Stack by Electron Cyclotron Resonance Plasma Post-nitridation. Applied Physics Express, 2013, 6, 051302.	2.4	20
88	Analysis and Comparison of L-Valley Transport in GaAs, GaSb, and Ge Ultrathin-Body Ballistic nMOSFETs. IEEE Transactions on Electron Devices, 2013, 60, 4213-4218.	3.0	19
89	Impact of plasma post-nitridation on HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /SiGe gate stacks toward EOT scaling. Microelectronic Engineering, 2013, 109, 266-269.	2.4	19
90	High Electron Mobility Ge n-Channel Metal-Insulator-Semiconductor Field-Effect Transistors Fabricated by the Gate-Last Process with the Solid Source Diffusion Technique. Applied Physics Express, 2010, 3, 061301.	2.4	18

#	ARTICLE	IF	CITATIONS
91	Front-gate InGaAs-on-Insulator metal-insulator-semiconductor field-effect transistors. Applied Physics Letters, 2010, 97, 253502.	3.3	18
92	Initial Processes of Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> on InGaAs: Interface Formation Mechanisms and Impact on Metal-Insulator-Semiconductor Device Performance. Materials, 2012, 5, 404-414.	2.9	18
93	Sb-Doped S/D Ultrathin Body Ge-On Insulator nMOSFET Fabricated by Improved Ge Condensation Process. IEEE Transactions on Electron Devices, 2014, 61, 3379-3385.	3.0	18
94	Fabrication and MOS interface properties of ALD Al <sub>2</sub> O <sub>3</sub> /GeO <sub>2</sub> /Ge gate stacks with plasma post oxidation. Microelectronic Engineering, 2015, 147, 244-248.	2.4	18
95	Radiological characteristics of MRI-based VIP polymer gel under carbon beam irradiation. Radiation Physics and Chemistry, 2015, 107, 7-11.	2.8	18
96	High mobility Ge pMOSFETs with 0.7 nm ultrathin EOT using HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /O <sub>3</sub> /GeO <sub>x</sub> /Ge gate stacks fabricated by plasma post oxidation. , 2012, , .		17
97	Impact of plasma post oxidation temperature on interface trap density and roughness at GeO <sub>x</sub> /Ge interfaces. Microelectronic Engineering, 2013, 109, 97-100.	2.4	17
98	Impact of process temperature on GaSb metal-oxide-semiconductor interface properties fabricated by ex-situ process. Applied Physics Letters, 2014, 104, 262901.	3.3	17
99	Impact of La <sub>2</sub> O <sub>3</sub> interfacial layers on InGaAs metal-oxide-semiconductor interface properties in Al <sub>2</sub> O <sub>3</sub> /La <sub>2</sub> O <sub>3</sub> /InGaAs gate stacks deposited by atomic-layer-deposition. Journal of Applied Physics, 2015, 118, .	2.5	17
100	Ultrathin body GaSb-on-insulator p-channel metal-oxide-semiconductor field-effect transistors on Si fabricated by direct wafer bonding. Applied Physics Letters, 2015, 106, 073503.	3.3	17
101	Reduction of MOS Interface Defects in TiN/Y <sub>2</sub> O <sub>3</sub> /Si <sub>3</sub> N <sub>4</sub> /Ge <sub>2</sub> S <sub>7</sub> Structures by Trimethylaluminum Treatment. IEEE Transactions on Electron Devices, 2020, 67, 4067-4072.	3.0	17
102	High performance sub-20-nm-channel-length extremely-thin body InAs-on-insulator tri-gate MOSFETs with high short channel effect immunity and V <sub>th</sub> tunability. , 2013, , .		16
103	Biaxially strained extremely-thin body In <sub>0.53</sub> Ga <sub>0.47</sub> As-on-insulator metal-oxide-semiconductor field-effect transistors on Si substrate and physical understanding on their electron mobility. Journal of Applied Physics, 2013, 114, 164512.	2.5	16
104	Surface Leakage Reduction in MSM InGaAs Photodetector on III-V CMOS Photonics Platform. IEEE Photonics Technology Letters, 2015, 27, 1569-1572.	2.5	16
105	Impact of back interface passivation on electrical properties of ultrathin-body Germanium-on-insulator (GeOI) MOSFETs. Microelectronic Engineering, 2015, 147, 196-200.	2.4	16
106	Properties of slow traps of ALD Al <sub>2</sub> O <sub>3</sub> /GeO <sub>x</sub> /Ge nMOSFETs with plasma post oxidation. Applied Physics Letters, 2016, 109, .	3.3	16
107	Energy-Efficient Reliable HZO FeFET Computation-in-Memory with Local Multiply & Global Accumulate Array for Source-Follower & Charge-Sharing Voltage Sensing. , 2021, , .		16
108	Interface-Controlled Self-Align Source/Drain Ge p-Channel Metal-Oxide-Semiconductor Field-Effect Transistors Fabricated Using Thermally Oxidized GeO <sub>2</sub> Interfacial Layers. Japanese Journal of Applied Physics, 2011, 50, 010109.	1.5	15

#	ARTICLE	IF	CITATIONS
109	Numerical Analysis of Carrier-Depletion Strained SiGe Optical Modulators With Vertical p-n Junction. IEEE Journal of Quantum Electronics, 2015, 51, 1-7.	1.9	15
110	Characterization of ultrathin-body Germanium-on-insulator (GeOI) structures and MOSFETs on flipped Smart-Cut <sup>®</sup> GeOI substrates. Solid-State Electronics, 2016, 115, 120-125.	1.4	15
111	Improvement of SiGe MOS interface properties with a wide range of Ge contents by using TiN/Y <sub>2</sub> O <sub>3</sub> gate stacks with TMA nassivation. , 2019, , .		15
112	Impact of SiGe layer thickness in starting substrates on strained Ge-on-insulator pMOSFETs fabricated by Ge condensation method. Applied Physics Letters, 2019, 114, .	3.3	15
113	p-Channel TFET Operation of Bilayer Structures With Type-II Heterotunneling Junction of Oxide- and Group-IV Semiconductors. IEEE Transactions on Electron Devices, 2020, 67, 1880-1886.	3.0	15
114	High-quality germanium dioxide thin films with low interface state density using a direct neutral beam oxidation process. Applied Physics Letters, 2012, 100, 213108.	3.3	14
115	Tunneling MOSFET technologies using III-V/Ge materials. , 2016, , .		14
116	Bilayer tunneling field effect transistor with oxide-semiconductor and group-IV semiconductor hetero junction: Simulation analysis of electrical characteristics. AIP Advances, 2019, 9, 055001.	1.3	14
117	Comprehensive Understanding of Coulomb Scattering Mobility in Biaxially Strained-Si pMOSFETs. IEEE Transactions on Electron Devices, 2009, 56, 1152-1156.	3.0	13
118	III-V/Ge CMOS technologies on Si platform. , 2010, , .		13
119	Effects of HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> gate stacks on electrical performance of planar In <sub>x</sub> Ga <sub>1-x</sub> As tunneling field-effect transistors. Applied Physics Express, 2017, 10, 084201.	2.4	13
120	Impact of Atomic Layer Deposition High k Films on Slow Trap Density in Ge MOS Interfaces With GeO <sub>x</sub> Interfacial Layers Formed by Plasma Pre-Oxidation. IEEE Journal of the Electron Devices Society, 2018, 6, 950-955.	2.1	13
121	A Novel Gate-Normal Tunneling Field-Effect Transistor With Dual-Metal Gate. IEEE Journal of the Electron Devices Society, 2018, 6, 1070-1076.	2.1	13
122	Operation of (111) Ge-on-Insulator n-Channel MOSFET Fabricated by Smart-Cut Technology. IEEE Electron Device Letters, 2020, 41, 985-988.	3.9	13
123	Initial growth of InAs on P-terminated Si(111) surfaces to promote uniform lateral growth of InGaAs micro-discs on patterned Si. Journal of Crystal Growth, 2010, 312, 1348-1352.	1.5	12
124	In <sub>0.53</sub> Ga <sub>0.47</sub> As metal-oxide-semiconductor field-effect transistors with self-aligned metal source/drain using Co-InGaAs alloys. Applied Physics Letters, 2012, 100, .	3.3	12
125	Experimental study on vertical scaling of InAs-on-insulator metal-oxide-semiconductor field-effect transistors. Applied Physics Letters, 2014, 104, .	3.3	12
126	Quantitative evaluation of slow traps near Ge MOS interfaces by using time response of MOS capacitance. Japanese Journal of Applied Physics, 2015, 54, 04DA02.	1.5	12



#	ARTICLE	IF	CITATIONS
127	Analysis of interface trap density of plasma post-nitrided Al <sub>2</sub> O <sub>3</sub> /SiGe MOS interface with high Ge content using high-temperature conductance method. Journal of Applied Physics, 2016, 120, 125707.	2.5	12
128	Design and properties of planar-type tunnel FETs using In <sub>0.53</sub> Ga <sub>0.47</sub> As/In <sub>x</sub> Ga <sub>1-x</sub> As/In <sub>0.53</sub> Ga <sub>0.47</sub> As quantum well. Journal of Applied Physics, 2017, 122, .	2.5	12
129	Influence of impurity concentration in Ge sources on electrical properties of Ge/Si hetero-junction tunneling field-effect transistors. Applied Physics Letters, 2018, 113, 062103.	3.3	12
130	Tunable Grating Coupler by Thermal Actuation and Thermo-Optic Effect. IEEE Photonics Technology Letters, 2018, 30, 1503-1506.	2.5	12
131	ZnO/Si and ZnO/Ge bilayer tunneling field effect transistors: Experimental characterization of electrical properties. Journal of Applied Physics, 2019, 125, .	2.5	12
132	Gas Phase Doping of Arsenic into (100), (110), and (111) Germanium Substrates Using a Metal-Organic Source. Japanese Journal of Applied Physics, 2011, 50, 010105.	1.5	11
133	Effects of buffered HF cleaning on metal-oxide-semiconductor interface properties of Al <sub>2</sub> O <sub>3</sub> /InAs/GaSb structures. Applied Physics Express, 2015, 8, 061203.	2.4	11
134	Impact of Postdeposition Annealing Ambient on the Mobility of Ge nMOSFETs With 1-nm EOT Al <sub>2</sub> O <sub>3</sub> /GeO <sub>2</sub> /Ge Gate-Stacks. IEEE Transactions on Electron Devices, 2016, 63, 558-564.	3.0	11
135	Design and characterization of Ge passive waveguide components on Ge-on-insulator wafer for mid-infrared photonics. Japanese Journal of Applied Physics, 2018, 57, 042202.	1.5	11
136	TiN/Al <sub>2</sub> O <sub>3</sub> /ZnO gate stack engineering for top-gate thin film transistors by combination of post oxidation and annealing. Applied Physics Letters, 2018, 112, .	3.3	11
137	Numerical analyses of optical loss and modulation bandwidth of an InP organic hybrid optical modulator. Optics Express, 2020, 28, 29730.	3.4	11
138	A floating gate negative capacitance MoS <sub>2</sub> phototransistor with high photosensitivity. Nanoscale, 2022, 14, 2013-2022.	5.6	11
139	Verification of influence of tail states and interface states on sub-threshold swing of Si n-channel MOSFETs over a temperature range of 4-300 K. Japanese Journal of Applied Physics, 2022, 61, SC1032.	1.5	11
140	Comprehensive understanding of surface roughness and Coulomb scattering mobility in biaxially-strained Si MOSFETs. , 2008, , .		10
141	Interfacial Control and Electrical Properties of Ge MOS structures. ECS Transactions, 2009, 19, 67-85.	0.5	10
142	Sub-60 nm deeply-scaled channel length extremely-thin body In <sub>x</sub> Ga <sub>1-x</sub> As-on-insulator MOSFETs on Si with Ni-InGaAs metal S/D and MOS interface buffer engineering. , 2012, , .		10
143	Proposal and demonstration of oxide-semiconductor/(Si, SiGe, Ge) bilayer tunneling field effect transistor with type-II energy band alignment. , 2017, , .		10
144	Ge p-channel tunneling FETs with steep phosphorus profile source junctions. Japanese Journal of Applied Physics, 2018, 57, 04FD10.	1.5	10

#	ARTICLE	IF	CITATIONS
145	Metal-oxide-semiconductor interface properties of TiN/Y2O3/Si0.62Ge0.38 gate stacks with high temperature post-metallization annealing. Journal of Applied Physics, 2020, 127, .	2.5	10
146	Antiferroelectric properties of ZrO2 ultra-thin films prepared by atomic layer deposition. Applied Physics Letters, 2021, 118, .	3.3	10
147	High-efficiency Ge thermo-optic phase shifter on Ge-on-insulator platform. Optics Express, 2019, 27, 6451.	3.4	10
148	Hole mobility enhancement in extremely-thin-body strained GOI and SGOI pMOSFETs by improved Ge condensation method. , 2018, , .		9
149	Fabrication of thin body InAs-on-insulator structures by Smart Cut method with H <sup>+</sup> implantation at room temperature. Japanese Journal of Applied Physics, 2019, 58, SBBA03.	1.5	9
150	Mid-infrared tunable Vernier filter on a germanium-on-insulator photonic platform. Optics Letters, 2019, 44, 2779.	3.3	9
151	Low-loss Ge waveguide at the 2- $\mu$ m band on an n-type Ge-on-insulator wafer. Optical Materials Express, 2021, 11, 4097.	3.0	9
152	Evaluation of Electron and Hole Mobility at Identical Metal-Oxide-Semiconductor Interfaces by using Metal Source/Drain Ge-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2009, 48, 04C050.	1.5	8
153	High mobility CMOS technologies using III-V/Ge channels on Si platform. , 2012, , .		8
154	High mobility strained-Ge pMOSFETs with 0.7-nm ultrathin EOT using plasma post oxidation HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /GeO <sub>x</sub> gate stacks and strain modulation. , 2013, , .		8
155	Operation of the GaSb p-channel metal-oxide-semiconductor field-effect transistors fabricated on (111)A surfaces. Applied Physics Letters, 2014, 105, .	3.3	8
156	Low temperature Al <sub>2</sub> O <sub>3</sub> surface passivation for carrier-injection SiGe optical modulator. Optics Express, 2014, 22, 7458.	3.4	8
157	High performance 4.5-nm-thick compressively-strained Ge-on-insulator pMOSFETs fabricated by Ge condensation with optimized temperature control. , 2017, , .		8
158	Low-loss graphene-based optical phase modulator operating at mid-infrared wavelength. Japanese Journal of Applied Physics, 2018, 57, 04FH06.	1.5	8
159	Investigation of Electrical Characteristics of Vertical Junction Si n-Type Tunnel FET. IEEE Transactions on Electron Devices, 2018, 65, 5511-5517.	3.0	8
160	Impact of metal gate electrodes on electrical properties of Y2O3/Si0.78Ge0.22 gate stacks. Microelectronic Engineering, 2019, 214, 87-92.	2.4	8
161	Performance enhancement of p-GaAs0.51Sb0.49/In0.53Ga0.47As hetero-junction vertical tunneling field-effect transistors with abrupt source impurity profile. Journal of Applied Physics, 2019, 126, .	2.5	8
162	High mobility channel MOS device technologies toward nano-CMOS era. , 2011, , .		7

#	ARTICLE	IF	CITATIONS
163	Physical Origin of Drive Current Enhancement in Ultrathin Ge-on-Insulator n-Channel Metal-Oxide-Semiconductor Field-Effect Transistors under Full Ballistic Transport. Japanese Journal of Applied Physics, 2011, 50, 010110.	1.5	7
164	Self-aligned metal S/D GaSb p-MOSFETs using Ni-GaSb alloys. , 2012, , .		7
165	Ge/III-V MOS device technologies for low power integrated systems. , 2015, , .		7
166	InAs/GaSb-on-insulator single channel complementary metal-oxide-semiconductor transistors on Si structure. Applied Physics Letters, 2016, 109, 213505.	3.3	7
167	Impact of surface orientation on (100), (111)A, and (111)B InGaAs surfaces with In content of 0.53 and 0.70 and on their Al <sub>2</sub> O <sub>3</sub> /InGaAs metal-oxide-semiconductor interface properties. Applied Physics Letters, 2016, 109, 182111.	3.3	7
168	Effects of additional oxidation after Ge condensation on electrical properties of germanium-on-insulator p-channel MOSFETs. Solid-State Electronics, 2016, 117, 77-87.	1.4	7
169	Reduction of slow trap density of Al <sub>2</sub> O <sub>3</sub> /GeO <sub>x</sub> /n-Ge MOS interfaces by inserting ultrathin Y <sub>2</sub> O <sub>3</sub> interfacial layers. Microelectronic Engineering, 2017, 178, 132-136.	2.4	7
170	Pretreatment Effects on High-k/In <sub>x</sub> Ga <sub>1-x</sub> As MOS Interface Properties and Their Physical Model. IEEE Journal of the Electron Devices Society, 2018, 6, 487-493.	2.1	7
171	Fabrication and Electrical Characteristics of ZnSnO/Si Bilayer Tunneling Filed-Effect Transistors. IEEE Journal of the Electron Devices Society, 2019, 7, 1201-1208.	2.1	7
172	Effects of hydrogen ion implantation dose on physical and electrical properties of Ge-on-insulator layers fabricated by the smart-cut process. AIP Advances, 2020, 10, .	1.3	7
173	Proposal and Experimental Demonstration of Ultrathin-Body (111) InAs-On-Insulator nMOSFETs With L Valley Conduction. IEEE Transactions on Electron Devices, 2021, 68, 2003-2009.	3.0	7
174	Source engineering for bilayer tunnel field-effect transistor with hetero tunnel junction: thickness and impurity concentration. Applied Physics Express, 2020, 13, 074004.	2.4	7
175	Strain-Modulated L-Valley Ballistic-Transport in (111) GaAs Ultrathin-Body nMOSFETs. IEEE Transactions on Electron Devices, 2014, 61, 1335-1340.	3.0	6
176	Modulation of sub-threshold properties of InGaAs MOSFETs by La <sub>2</sub> O <sub>3</sub> gate dielectrics. AIP Advances, 2017, 7, 095215.	1.3	6
177	InGaSb-on-insulator p-channel metal-oxide-semiconductor field-effect transistors on Si fabricated by direct wafer bonding. Journal of Applied Physics, 2019, 125, .	2.5	6
178	Strain and surface orientation engineering in extremely-thin body Ge and SiGe-on-insulator MOSFETs fabricated by Ge condensation. , 2019, , .		6
179	Re-examination of effects of sulfur treatment on Al <sub>2</sub> O <sub>3</sub> /InGaAs metal-oxide-semiconductor interface properties. Journal of Applied Physics, 2019, 126, .	2.5	6
180	Efficient Mid-Infrared Germanium Variable Optical Attenuator Fabricated by Spin-on-Glass Doping. Journal of Lightwave Technology, 2020, 38, 4808-4816.	4.6	6

#	ARTICLE	IF	CITATIONS
181	Effective Mobility Enhancement Through Asymmetric Strain Channels on Extremely Thin Body (100) GOI pMOSFETs. IEEE Transactions on Electron Devices, 2022, 69, 25-30.	3.0	6
182	Influence of interface traps inside the conduction band on the capacitance-voltage characteristics of InGaAs metal-oxide-semiconductor capacitors. Applied Physics Express, 2016, 9, 111202.	2.4	5
183	InGaAsP variable optical attenuator with lateral P-I-N junction formed by Ni-InGaAsP and Zn diffusion on III-V on insulator wafer. MRS Advances, 2016, 1, 3295-3300.	0.9	5
184	Characterization and understanding of slow traps in GeOx-based n-Ge MOS interfaces. , 2018, , .		5
185	Drive current enhancement of Si MOSFETs by using anti-ferroelectric gate insulators. Japanese Journal of Applied Physics, 2019, 58, SBBA15.	1.5	5
186	Impacts of Equivalent Oxide Thickness Scaling of TiN/ $\text{Al}_2\text{O}_3$ Gate Stacks With Trimethylaluminum Treatment on SiGe MOS Interface Properties. IEEE Electron Device Letters, 2021, 42, 966-969.	3.9	5
187	Accurate evaluation of specific contact resistivity between InAs/Ni-InAs alloy using a multi-sidewall transmission line method. Japanese Journal of Applied Physics, 2020, 59, SGG408.	1.5	5
188	Physical Origin of Drive Current Enhancement in Ultrathin Ge-on-Insulator n-Channel Metal-Oxide-Semiconductor Field-Effect Transistors under Full Ballistic Transport. Japanese Journal of Applied Physics, 2011, 50, 010110.	1.5	5
189	Optimum Channel Design of Extremely-Thin-Body nMOSFETs Utilizing Anisotropic Valley-Robust to Surface Roughness Scattering. IEEE Transactions on Electron Devices, 2022, 69, 2115-2121.	3.0	5
190	Physical understanding of electron mobility in asymmetrically strained InGaAs-on-insulator metal-oxide-semiconductor field-effect transistors fabricated by lateral strain relaxation. Applied Physics Letters, 2014, 104, 113509.	3.3	4
191	III-V/Ge MOSFETs and tunneling FETs on Si platform for low power logic applications. , 2015, , .		4
192	Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. IEEE Photonics Journal, 2020, 12, 1-7.	2.0	4
193	Influence of layer transfer and thermal annealing on the properties of InAs-On-Insulator films. Journal of Applied Physics, 2020, 128, .	2.5	4
194	Improvement in Electrical Characteristics of ZnSnO/Si Bilayer TFET by $\text{W}/\text{Al}_2\text{O}_3$ Gate Stack. IEEE Journal of the Electron Devices Society, 2020, 8, 341-345.	2.1	4
195	High mobility III-V-on-insulator MOSFETs on Si with ALD- $\text{Al}_2\text{O}_3$ BOX layers. , 2010, , .		3
196	Suppression of Interface State Generation in Si MOSFETs with Biaxial Tensile Strain. IEEE Electron Device Letters, 2011, 32, 1005-1007.	3.9	3
197	Performance enhancement of Ge-on-Insulator tunneling FETs with source junctions formed by low-energy $\text{BF}_2$ ion implantation. Japanese Journal of Applied Physics, 2018, 57, 04FD15.	1.5	3
198	Electrical Properties of Ultra-Thin Body (111) Ge-On-Insulator n-Channel MOSFETs Fabricated by Smart-Cut Process. IEEE Journal of the Electron Devices Society, 2021, 9, 612-617.	2.1	3

#	ARTICLE	IF	CITATIONS
199	Subband Engineering by Combination of Channel Thickness Scaling and (111) Surface Orientation in InAs-On-Insulator nMOSFETs. , 2020, , .		3
200	Optimum Design of Channel Material and Surface Orientation for Extremely-Thin-Body nMOSFETs under New Modeling of Surface Roughness Scattering. , 2021, , .		3
201	Edge Retraining of FeFET LM-GA CiM for Write Variation & Reliability Error Compensation. , 2022, , .		3
202	Advanced non-Si channel CMOS technologies on Si platform. , 2010, , .		2
203	High mobility material channel CMOS technologies based on heterogeneous integration. , 2011, , .		2
204	High Mobility Ge-Based CMOS Device Technologies. Key Engineering Materials, 2011, 470, 1-7.	0.4	2
205	Impact of Al <sub>2</sub> O <sub>3</sub> /InGaAs MOS interface on InGaAs MOSFET performance and its application to InGaAs negative capacitance FET. , 2016, , .		2
206	IIIâ€V-based low power CMOS devices on Si platform. , 2017, , .		2
207	IIIâ€V/Ge MOSFETs and TFETs for ultra-low power logic LSIs. , 2017, , .		2
208	Advanced CMOS technologies for ultra-low power logic and AI applications. , 2021, , .		2
209	Re-examination of effects of ALD high-k materials on defect reduction in SiGe metalâ€oxideâ€semiconductor interfaces. AIP Advances, 2021, 11, .	1.3	2
210	Evaluation of interface traps inside the conduction band of InAs-on-insulator nMOSFET by self-consistent Hall-QSCV method. Applied Physics Letters, 2021, 119, .	3.3	2
211	The importance of inversion-layer capacitance in Si MOSFETs in the ultra-thin gate oxide regime. , 0, , .		1
212	Ge photodetector integrated with Ge-on-insulator MOSFET by using oxidation condensation technique. , 2008, , .		1
213	Fabrication of Ge-rich SiGe-On-insulator waveguide for optical modulator. , 2011, , .		1
214	Improvement of SiGe MOS interfaces by plasma post-nitridation for SiGe high-k MOS optical modulators. , 2012, , .		1
215	MOS interface engineering for high-mobility Ge CMOS. , 2013, , .		1
216	Impact of Al <sub>2</sub> O <sub>3</sub> /GaSb metal-oxide-semiconductor interface properties. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
217	Multi-bandgap III-V on insulator wafer fabricated by quantum well intermixing for III-V CMOS photonics platform. , 2014, , .		1
218	Advanced nano CMOS using Ge/IIIâ€“V semiconductors for low power logic LSIs. , 2015, , .		1
219	Near-infrared and mid-infrared integrated photonics based on Ge-on-insulator platform. , 2017, , .		1
220	Material design of oxide-semiconductor/group-IV-semiconductor bilayer tunneling field effect transistors. , 2019, , .		1
221	Improvement of material quality of (100) and (111) Ge-on-insulator substrates fabricated by smart-cut technology. , 2019, , .		1
222	Impact of Switching Voltage on Complementary Steep-Slope Tunnel Field Effect Transistor Circuits. IEEE Transactions on Electron Devices, 2020, 67, 3876-3882.	3.0	1
223	Corrections to â€œOperation of (111) Ge-on-Insulator n-channel MOSFET Fabricated by Smart-Cut Technologyâ€•[Jul 20 985-988]. IEEE Electron Device Letters, 2020, 41, 1266-1266.	3.9	1
224	Requirements of epitaxially grown InGaAs channel layers for tunnel field-effect transistors. Journal of Applied Physics, 2020, 127, 225702.	2.5	1
225	SPICE simulation of 32-kHz crystal-oscillator operation based on Si tunnel FET. IEICE Electronics Express, 2020, 17, 20200025-20200025.	0.8	1
226	Ge Ring Modulator Based on Carrier-injection Phaser Shifter Operating at Two Micrometer Band. , 2021, , .		1
227	Numerical analysis of optical phase modulator operating at 2 Î¼m wavelength using graphene/IIIâ€“V hybrid metal-oxide-semiconductor capacitor. Japanese Journal of Applied Physics, 2022, 61, SC1031.	1.5	1
228	Mobility-Enhanced MOS Device Technologies in Nano-CMOS era. Device Research Conference, IEEE Annual, 2007, , .	0.0	0
229	Source/drain formation by using epitaxial regrowth of N+InP for III&#x2013;V nMOSFETs. , 2009, , .		0
230	Metal source/drain inversion-mode InP MOSFETs. , 2009, , .		0
231	Advanced CMOS technologies using III-V/Ge channels. , 2011, , .		0
232	Highly-strained SGOI p-channel MOSFETs fabricated by applying Ge condensation technique to strained-SOI substrates. , 2011, , .		0
233	III-V CMOS technologies on Si platform. Materials Research Society Symposia Proceedings, 2011, 1336, 50401.	0.1	0
234	Numerical analysis of strained SiGe-based carrier-injection optical modulators. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
235	Thin germanium dioxide film with a high quality interface formed in a direct neutral beam oxidation process. , 2012, , .		0
236	Low temperature surface passivation for carrier injection type SiGe optical modulator. , 2013, , .		0
237	Simulation of carrier-depletion strained SiGe optical modulators with vertical p-n junction. , 2014, , .		0
238	Surface orientation dependence of electro-optic effects in InGaAsP for lateral PIN-junction InGaAsP photonic-wire modulators. , 2014, , .		0
239	Effectiveness of Surface Potential Fluctuation for Representing Inversion-Layer Mobility Limited by Coulomb Scattering in MOFETs. IEEE Electron Device Letters, 2015, 36, 1183-1185.	3.9	0
240	III-V/Ge-based tunneling MOSFET. , 2017, , .		0
241	Effects of ge-source impurity concentration on electrical characteristics of Ge/Si hetero-junction tunneling FETs. , 2017, , .		0
242	Ultra-low power MOSFET and tunneling FET technologies using III-V and Ge. , 2017, , .		0
243	Ge-on-Insulator Platform for Mid-Infrared Integrated Photonics. , 2018, , .		0
244	Si Hybrid MOS Optical Phase Shifter for Switching and Computing. , 2018, , .		0
245	Semiconductor-insulator-semiconductor (SIS) structures for high-performance optical modulation. , 2018, , .		0
246	III-V/Si Hybrid MOS Optical Phase Modulator for Si Photonic Integrated Circuits. , 2018, , .		0
247	Low-Power Ge Thermo-Optic Phase Shifter on Ge-on-Insulator Platform. , 2018, , .		0
248	MOS Device Technology using Alternative Channel Materials for Low Power Logic LSI. , 2018, , .		0
249	Relationship between interface state generation and substrate hole current in InGaAs metal-oxide-semiconductor (MOS) interfaces. Journal of Applied Physics, 2018, 123, 234502.	2.5	0
250	Advanced MOS Device Technology for Low Power Logic LSI. , 2019, , .		0
251	Improvement of p-type GaAs <sub>0.51</sub> Sb <sub>0.49</sub> metal-oxide-semiconductor interface properties by using ultrathin In <sub>0.53</sub> Ga <sub>0.47</sub> As interfacial layers. Journal of Applied Physics, 2019, 125, 214504.	2.5	0
252	Coupled-Resonator-Induced-Transparency on Germanium-on-Insulator Mid-Infrared Platform. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
253	Diffusion properties of n-type dopants diffused from spin on glass into Ge. Journal of Applied Physics, 2020, 128, 015707.	2.5	0
254	Silicon Photonics Using Heterogeneous Integration for Society 5.0. Vacuum and Surface Science, 2021, 64, 68-73.	0.1	0
255	Invited Paper: Bilayer Tunneling Field Effect Transistors using Oxide Semiconductor/Group IV Semiconductor Heterostructures. Digest of Technical Papers SID International Symposium, 2021, 52, 73-76.	0.3	0
256	Germanium Mid-infrared Integrated Photonics on GeOI Platform. , 2021, , .		0
257	Group IV/oxide semiconductor bi-layer tunneling FET. , 2019, , .		0
258	Introduction of high tensile strain into Ge-on-Insulator structures by oxidation and annealing at high temperature. Japanese Journal of Applied Physics, 2022, 61, SC1027.	1.5	0
259	Characterization of interface properties of Al <sub>2</sub> O <sub>3</sub> /n-GaSb and Al <sub>2</sub> O <sub>3</sub> /InAs/n-GaSb metal-oxide-semiconductor structures. Japanese Journal of Applied Physics, 0, , .	1.5	0