Meishoku Masahara

List of Publications by Year
in descending order

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172	2,086	304743 22	330143 37
papers	citations	h-index	g-index

172	172	172	1336
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Demonstration, Analysis, and Device Design Considerations for Independent DG MOSFETs. IEEE Transactions on Electron Devices, 2005, 52, 2046-2053.	3.0	115
2	Ultra-compact 8 Ã— 8 strictly-non-blocking Si-wire PILOSS switch. Optics Express, 2014, 22, 3887.	3.4	105
3	A Highly Threshold Voltage-Controllable 4T FinFET with an 8.5-nm-Thick Si-Fin Channel. IEEE Electron Device Letters, 2004, 25, 510-512.	3.9	97
4	Investigation of the TiN Gate Electrode With Tunable Work Function and Its Application for FinFET Fabrication. IEEE Nanotechnology Magazine, 2006, 5, 723-730.	2.0	90
5	Ideal rectangular cross-section Si-Fin channel double-gate MOSFETs fabricated using orientation-dependent wet etching. IEEE Electron Device Letters, 2003, 24, 484-486.	3.9	83
6	Variability Analysis of TiN Metal-Gate FinFETs. IEEE Electron Device Letters, 2010, 31, 546-548.	3.9	63
7	Experimental Demonstration of Ultrashort-Channel (3 nm) Junctionless FETs Utilizing Atomically Sharp V-Grooves on SOI. IEEE Nanotechnology Magazine, 2014, 13, 208-215.	2.0	59
8	Study of tunneling transport in Si-based tunnel field-effect transistors with ON current enhancement utilizing isoelectronic trap. Applied Physics Letters, 2015, 106, .	3.3	54
9	Performance Enhancement of Tunnel Field-Effect Transistors by Synthetic Electric Field Effect. IEEE Electron Device Letters, 2014, 35, 792-794.	3.9	53
10	Cointegration of High-Performance Tied-Gate Three-Terminal FinFETs and Variable Threshold-Voltage Independent-Gate Four-Terminal FinFETs With Asymmetric Gate-Oxide Thicknesses. IEEE Electron Device Letters, 2007, 28, 517-519.	3.9	48
11	Cross-Sectional Channel Shape Dependence of Short-Channel Effects in Fin-Type Double-Gate Metal Oxide Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2004, 43, 2151-2155.	1.5	39
12	Fabrication of FinFETs by Damage-Free Neutral-Beam Etching Technology. IEEE Transactions on Electron Devices, 2006, 53, 1826-1833.	3.0	37
13	Unexpected equivalent-oxide-thickness dependence of the subthreshold swing in tunnel field-effect transistors. Applied Physics Express, 2014, 7, 024201.	2.4	35
14	On the gate-stack origin threshold voltage variability in scaled FinFETs and multi-FinFETs. , 2010, , .		32
15	Demonstration of Asymmetric Gate-Oxide Thickness Four-Terminal FinFETs Having Flexible Threshold Voltage and Good Subthreshold Slope. IEEE Electron Device Letters, 2007, 28, 217-219.	3.9	31
16	Enhancing SRAM cell performance by using independent double-gate FinFET. , 2008, , .		30
17	Advanced FinFET CMOS Technology: TiN-Gate, Fin-Height Control and Asymmetric Gate Insulator Thickness 4T-FinFETs. , 2006, , .		28
18	Experimental Evaluation of Effects of Channel Doping on Characteristics of FinFETs. IEEE Electron Device Letters, 2007, 28, 1123-1125.	3.9	28

#	ARTICLE	IF	CITATIONS
19	Nanoscale Wet Etching of Physical-Vapor-Deposited Titanium Nitride and Its Application to Sub-30-nm-Gate-Length Fin-Type Double-Gate Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistor Fabrication. Japanese Journal of Applied Physics, 2010, 49, 06GH18.	1.5	27
20	Decomposition of On-Current Variability of nMOS FinFETs for Prediction Beyond 20 nm. IEEE Transactions on Electron Devices, 2012, 59, 2003-2010.	3.0	27
21	A compact model for tunnel field-effect transistors incorporating nonlocal band-to-band tunneling. Journal of Applied Physics, 2013, 114, 144512.	2.5	25
22	Independent-Double-Gate FinFET SRAM for Leakage Current Reduction. IEEE Electron Device Letters, 2009, 30, 757-759.	3.9	24
23	A Comparative Study of Nitrogen Gas Flow Ratio Dependence on the Electrical Characteristics of Sputtered Titanium Nitride Gate Bulk Planar Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors and Fin-Type Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2009, 48, 05DC01.	1.5	23
24	Fluctuation Analysis of Parasitic Resistance in FinFETs With Scaled Fin Thickness. IEEE Electron Device Letters, 2009, 30, 407-409.	3.9	23
25	Dopant profiling in vertical ultrathin channels of double-gate metalâ€“oxideâ€“semiconductor field-effect transistors by using scanning nonlinear dielectric microscopy. Applied Physics Letters, 2004, 85, 4139-4141.	3.3	22
26	Investigation of Low-Energy Tilted Ion Implantation for Fin-Type Double-Gate Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistor Extension Doping. Japanese Journal of Applied Physics, 2010, 49, 04DC18.	1.5	22
27	Suppressing V<inf>t</inf> and G<inf>m</inf> variability of FinFETs using amorphous metal gates for 14 nm and beyond. , 2012, , .		22
28	Band-to-band tunneling current enhancement utilizing isoelectronic trap and its application to TFETs. , 2014, , .		22
29	Systematic electrical characteristics of ideal rectangular cross section si-fin channel double-gate MOSFETs fabricated by a wet process. IEEE Nanotechnology Magazine, 2003, 2, 198-204.	2.0	21
30	Fin-Type Double-Gate Metal-Oxide-Semiconductor Field-Effect Transistors Fabricated by Orientation-Dependent Etching and Electron Beam Lithography. Japanese Journal of Applied Physics, 2003, 42, 4142-4146.	1.5	21
31	Low Temperature, Beam-Orientation-Dependent, Lattice-Plane-Independent, and Damage-Free Oxidation for Three-Dimensional Structure by Neutral Beam Oxidation. Japanese Journal of Applied Physics, 2009, 48, 04C007.	1.5	21
32	Low activation energy, high-quality oxidation of Si and Ge using neutral beam. Applied Physics Letters, 2011, 98, 203111.	3.3	21
33	Large current MOSFET on photonic silicon-on-insulator wafers and its monolithic integration with a thermoâ€“optic 2 Ã— 2 Machâ€“Zehnder switch. Optics Express, 2013, 21, 6889.	3.4	21
34	Fabrication and Demonstration of 3-nm-Channel-Length Junctionless Field-Effect Transistors on Silicon-on-Insulator Substrates Using Anisotropic Wet Etching and Lateral Diffusion of Dopants. Japanese Journal of Applied Physics, 2013, 52, 04CA01.	1.5	21
35	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
36	Experimental Study of Effective Carrier Mobility of Multi-Fin-Type Double-Gate Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors with (111) Channel Surface Fabricated by Orientation-Dependent Wet Etching. Japanese Journal of Applied Physics, 2006, 45, 3084-3087.	1.5	18

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37	Four-Terminal FinFETs Fabricated Using an Etch-Back Gate Separation. IEEE Nanotechnology Magazine, 2007, 6, 201-205.	2.0	18
38	Tunnel Field-Effect Transistor with Epitaxially Grown Tunnel Junction Fabricated by Source/Drain-First and Tunnel-Junction-Last Processes. Japanese Journal of Applied Physics, 2013, 52, 04CC25.	1.5	16
39	Variability Origins of Parasitic Resistance in FinFETs With Silicided Source/Drain. IEEE Electron Device Letters, 2012, 33, 474-476.	3.9	15
40	Suppression of threshold voltage variability of double-gate fin field-effect transistors using amorphous metal gate with uniform work function. Applied Physics Letters, 2013, 102, .	3.3	15
41	Introduction of SiGe/Si heterojunction into novel multilayer tunnel FinFET. Japanese Journal of Applied Physics, 2016, 55, 04EB06.	1.5	15
42	Tunnel FinFET CMOS inverter with very low short-circuit current for ultralow-power Internet of Things application. Japanese Journal of Applied Physics, 2017, 56, 04CD19.	1.5	15
43	Fin-Height Effect on Poly-Si/PVD-TiN Stacked-Gate FinFET Performance. IEEE Transactions on Electron Devices, 2012, 59, 647-653.	3.0	14
44	Spatial variation of the work function in nano-crystalline TiN films measured by dual-mode scanning tunneling microscopy. Japanese Journal of Applied Physics, 2015, 54, 04DA03.	1.5	14
45	Fabrication of ultrathin Si Channel Wall For Vertical Double-Gate Metal-Oxide-Semiconductor Field-Effect Transistor (DG MOSFET) by Using Ion-Bombardment-Retarded Etching (IBRE). Japanese Journal of Applied Physics, 2003, 42, 1916-1918.	1.5	13
46	Flex-Pass-Gate SRAM Design for Static Noise Margin Enhancement Using FinFET-Based Technology. , 2007, , .		13
47	Enhancement of FinFET performance using 25-nm-thin sidewall spacer grown by atomic layer deposition. Solid-State Electronics, 2012, 74, 13-18.	1.4	13
48	Tunnel Field-Effect Transistors with Extremely Low Off-Current Using Shadowing Effect in Drain Implantation. Japanese Journal of Applied Physics, 2011, 50, 06GF14.	1.5	13
49	Optimum Gate Workfunction for $V_{m th}$-Controllable Four-Terminal-Driven Double-Gate MOSFETs (4T-XMOSFETs)â€"Band-Edge Workfunction Versus Midgap Workfunction. IEEE Nanotechnology Magazine, 2006, 5, 716-722.	2.0	12
50	Threshold-Voltage Reduction of FinFETs by Ta/Mo Interdiffusion Dual Metal-Gate Technology for Low-Operating-Power Application. IEEE Transactions on Electron Devices, 2008, 55, 2454-2461.	3.0	12
51	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 Metalâ€"Oxideâ€"Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 04DC14.	1.5	12
52	Variability Analysis of Scaled Crystal Channel and Poly-Si Channel FinFETs. IEEE Transactions on Electron Devices, 2012, 59, 573-581.	3.0	12
53	Influence of work function variation of metal gates on fluctuation of sub-threshold drain current for fin field-effect transistors with undoped channels. Japanese Journal of Applied Physics, 2014, 53, 04EC11.	1.5	12
54	Experimental Investigation of Optimum Gate Workfunction for CMOS Four-Terminal Multigate MOSFETs (MUGFETs). IEEE Transactions on Electron Devices, 2007, 54, 1431-1437.	3.0	11

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55	Metal-Gate FinFET Variation Analysis by Measurement and Compact Model. IEEE Electron Device Letters, 2009, 30, 556-558.	3.9	11
56	High-Performance Three-Terminal Fin Field-Effect Transistors Fabricated by a Combination of Damage-Free Neutral-Beam Etching and Neutral-Beam Oxidation. Japanese Journal of Applied Physics, 2010, 49, 04DC17.	1.5	11
57	Two-step annealing effects on ultrathin EOT higher-k (k=40) ALD-HfO2 gate stacks. Solid-State Electronics, 2013, 84, 58-64.	1.4	11
58	Demonstration of Split-Gate Type Trigate Flash Memory With Highly Suppressed Over-Erase. IEEE Electron Device Letters, 2012, 33, 345-347.	3.9	10
59	Work function uniformity of Alâ€“Ni alloys obtained by scanning Maxwell-stress microscopy as an effective tool for evaluating metal transistor gates. Applied Physics Letters, 2005, 86, 094104.	3.3	9
60	Fabrication and characterization of vertical-type, self-aligned asymmetric double-gate metal-oxide-semiconductor field-effect-transistors. Applied Physics Letters, 2005, 86, 123512.	3.3	9
61	Fabrication of a Vertical-Channel Double-Gate Metal-Oxide-Semiconductor Field-Effect Transistor Using a Neutral Beam Etching. Japanese Journal of Applied Physics, 2006, 45, L279-L281.	1.5	9
62	A Dynamical Power-Management Demonstration Using Four-Terminal Separated-Gate FinFETs. IEEE Electron Device Letters, 2007, 28, 452-454.	3.9	9
63	A Ta/Mo Interdiffusion Dual Metal Gate Technology for Drivability Enhancement of FinFETs. IEEE Electron Device Letters, 2008, 29, 618-620.	3.9	9
64	Predictivity of the non-local BTBT model for structure dependencies of tunnel FETs. , 2014, , .		9
65	Effect of hot implantation on ON-current enhancement utilizing isoelectronic trap in Si-based tunnel field-effect transistors. Applied Physics Express, 2015, 8, 036503.	2.4	9
66	Investigation of N-Channel Triple-Gate Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors on (100) Silicon On Insulator Substrate. Japanese Journal of Applied Physics, 2006, 45, 3097-3100.	1.5	8
67	Dual metal gate FinFET integration by Ta/Mo diffusion technology for Vt reduction and multi-Vt CMOS application. , 2008, , .		8
68	Atomic Layer Deposition of SiO₂ for the Performance Enhancement of Fin Field Effect Transistors. Japanese Journal of Applied Physics, 2013, 52, 116503.	1.5	8
69	Novel Process for Vertical Double-Gate (DG) Metal-Oxide-Semiconductor Field-Effect-Transistor (MOSFET) Fabrication. Japanese Journal of Applied Physics, 2003, 42, 4138-4141.	1.5	7
70	Fabrication and characterization of vertical-type double-gate metal-oxide-semiconductor field-effect transistor with ultrathin Si channel and self-aligned source and drain. Applied Physics Letters, 2006, 88, 072103.	3.3	7
71	Design of SOI FinFET on 32nm technology node for low standby power (LSTP) operation considering gate-induced drain leakage (GIDL). Solid-State Electronics, 2010, 54, 1060-1065.	1.4	7
72	Investigation of Thermal Stability of TiN Film Formed by Atomic Layer Deposition Using Tetrakis(dimethylamino)titanium Precursor for Metal-Gate Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistor. Japanese Journal of Applied Physics, 2010, 49, 04DA16.	1.5	7

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73	Comprehensive analysis of I<inf>on</inf> variation in metal gate FinFETs for 20nm and beyond. , 2011, , .		7
74	Tunnel Field-Effect Transistors with Extremely Low Off-Current Using Shadowing Effect in Drain Implantation. Japanese Journal of Applied Physics, 2011, 50, 06GF14.	1.5	7
75	Performance evaluation of parallel electric field tunnel field-effect transistor by a distributed-element circuit model. Solid-State Electronics, 2014, 102, 82-86.	1.4	7
76	Impact of granular work function variation in a gate electrode on low-frequency noise for fin field-effect transistors. Applied Physics Express, 2015, 8, 044201.	2.4	7
77	Diagnostics of doping integrity in n+/p/n+ transistor-channel structure by scanning nonlinear dielectric microscopy. Applied Physics Letters, 2004, 84, 3169-3171.	3.3	6
78	Independent double-gate FinFETs with asymmetric gate stacks. Microelectronic Engineering, 2007, 84, 2097-2100.	2.4	6
79	Impact of extension and source/drain resistance on FinFET performance. , 2008, , .		6
80	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
81	Improvement of epitaxial channel quality on heavily arsenic- and boron-doped Si surfaces and impact on performance of tunnel field-effect transistors. Solid-State Electronics, 2015, 113, 173-178.	1.4	6
82	Enhanced nickelidation rate in silicon nanowires with interfacial lattice disorder. Journal of Applied Physics, 2017, 122, .	2.5	6
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 Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 04DC14.	1.5	6
84	Electron mobility in multi-FinFET with a (111) channel surface fabricated by orientation-dependent wet etching. Microelectronic Engineering, 2005, 80, 390-393.	2.4	5
85	Demonstration and Analysis of Accumulation-Mode Double-Gate Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistor. Japanese Journal of Applied Physics, 2006, 45, 3079-3083.	1.5	5
86	New Fabrication Technology of Fin Field Effect Transistors Using Neutral-Beam Etching. Japanese Journal of Applied Physics, 2006, 45, 5513-5516.	1.5	5
87	Fabrication of Four-Terminal Fin Field-Effect Transistors with Asymmetric Gate-Oxide Thickness Using an Anisotropic Oxidation Process with a Neutral Beam. Applied Physics Express, 2010, 3, 096502.	2.4	5
88	Comparative Study of Charge Trapping Type SOI-FinFET Flash Memories with Different Blocking Layer Materials. Journal of Low Power Electronics and Applications, 2014, 4, 153-167.	2.0	5
89	Robust and compact key generator using physically unclonable function based on logic-transistor-compatible poly-crystalline-Si channel FinFET technology. , 2015, , .		5
90	Suppression of tunneling rate fluctuations in tunnel field-effect transistors by enhancing tunneling probability. Japanese Journal of Applied Physics, 2017, 56, 04CD02.	1.5	5

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91	Rigorous Design of 22-nm Node 4-Terminal SOI FinFETs for Reliable Low Standby Power Operation with Semi-empirical Parameters. Journal of Semiconductor Technology and Science, 2010, 10, 265-275.	0.4	5
92	Demonstration of threshold voltage control techniques for vertical-type 4-terminal double-gate MOSFETs (4T-DGFET). , 0, , .		4
93	Ta/Mo Stack Dual Metal Gate Technology Applicable to Gate-First Processes. Japanese Journal of Applied Physics, 2007, 46, 1825-1829.	1.5	4
94	Vertical doubleâ€gate MOSFET device technology. Electronics and Communications in Japan, 2008, 91, 46-51.	0.5	4
95	Dual-Metal-Gate Transistors with Symmetrical Threshold Voltages Using Work-Function-Tuned Ta/Mo Bilayer Metal Gates. Japanese Journal of Applied Physics, 2008, 47, 2428-2432.	1.5	4
96	Enhancing Noise Margins of Fin-Type Field Effect Transistor Static Random Access Memory Cell by Using Threshold Voltage-Controllable Flexible-Pass-Gates. Applied Physics Express, 2009, 2, 054502.	2.4	4
97	Variability Analysis of TiN FinFET SRAM Cells and Its Compensation by Independent-DG FinFETs. IEEE Electron Device Letters, 2010, 31, 1095-1097.	3.9	4
98	Independent double-gate FinFET SRAM technology. , 2011, , .		4
99	Scaling breakthrough for analog/digital circuits by suppressing variability and low-frequency noise for FinFETs by amorphous metal gate technology. , 2014, , .		4
100	Importance of interface engineering for synthesis of SrHfO₃ perovskite thin films on Si substrates through crystallization of amorphous films and control of flat-band voltages of metalâ€“oxideâ€“semiconductor capacitors. Japanese Journal of Applied Physics, 2014, 53, 04EA03.	1.5	4
101	Impact of thermal history of Si nanowire fabrication process on Ni silicidation rate. Japanese Journal of Applied Physics, 2014, 53, 085201.	1.5	4
102	(Invited) Charge Trapping Type SOI-FinFET Flash Memory. ECS Transactions, 2014, 61, 263-280.	0.5	4
103	Heated ion implantation for high-performance and highly reliable silicon-on-insulator complementary metalâ€“oxideâ€“silicon fin field-effect transistors. Japanese Journal of Applied Physics, 2015, 54, 04DA06.	1.5	4
104	Closed-form analytical model of static noise margin for ultra-low voltage eight-transistor tunnel FET static random access memory. Japanese Journal of Applied Physics, 2016, 55, 04ED06.	1.5	4
105	Epitaxial growth of Ge thin film on Si (001) by DC magnetron sputtering. Materials Science in Semiconductor Processing, 2017, 70, 3-7.	4.0	4
106	Doping diagnosis by evaluation of the surface Fermi level using scanning Maxwell-stress microscopy. Applied Physics Letters, 2003, 82, 2166-2168.	3.3	3
107	Silicon nanowire with programmable conductivity analyzed by scanning Maxwell-stress microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 664.	1.6	3
108	Enhancing noise margins of FinFET SRAM by integrating V<inf>th</inf>-controllable flexible-pass-gates. , 2008, , .		3

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109	Dual metal gate FinFET integration by Ta/Mo diffusion technology for Vt reduction and multi-Vt CMOS application. Solid-State Electronics, 2009, 53, 701-705.	1.4	3
110	Variability origins of FinFETs and perspective beyond 20nm node. , 2011, , .		3
111	A Correlative Analysis Between Characteristics of FinFETs and SRAM Performance. IEEE Transactions on Electron Devices, 2012, 59, 1345-1352.	3.0	3
112	Gate Structure Dependence of Variability in Polycrystalline Silicon Fin-Channel Flash Memories. Japanese Journal of Applied Physics, 2013, 52, 06GE01.	1.5	3
113	Impact of fin length on threshold voltage modulation by back bias for Independent double-gate tunnel fin field-effect transistors. Solid-State Electronics, 2015, 111, 62-66.	1.4	3
114	ON current enhancement of nanowire Schottky barrier tunnel field effect transistors. Japanese Journal of Applied Physics, 2016, 55, 04ED07.	1.5	3
115	Impact of extension implantation conditions of fin field-effect transistors on gate-induced drain leakage. Japanese Journal of Applied Physics, 2016, 55, 04EB01.	1.5	3
116	Impact of residual defects caused by extension ion implantation in FinFETs on parasitic resistance and its fluctuation. Solid-State Electronics, 2017, 132, 103-108.	1.4	3
117	Simulation study of short-channel effects of tunnel field-effect transistors. Japanese Journal of Applied Physics, 2018, 57, 04FD04.	1.5	3
118	A novel approach to Au nanoparticle-based identification of DNA nanoarrays. Frontiers in Bioscience - Landmark, 2007, 12, 4773.	3.0	3
119	P-Channel Vertical Double-Gate MOSFET Fabricated by Utilizing Ion-Bombardment-Retarded Etching Processs. Japanese Journal of Applied Physics, 2004, 43, 2156-2159.	1.5	2
120	Demonstration of Dopant Profiling in Ultrathin Channels of Vertical-Type Double-Gate Metal-Oxide-Semiconductor Field-Effect-Transistor by Scanning Nonlinear Dielectric Microscopy. Japanese Journal of Applied Physics, 2005, 44, 2400-2404.	1.5	2
121	Logic gate threshold voltage controllable single metal gate FinFET CMOS inverters implemented by using co-integration of 3T/4T-FinFETs. , 2008, , .		2
122	Experimental evaluation of parallel transmission using optical ZCZ-CDMA system. , 2009, , .		2
123	Vertical ultrathinâ€channel multiâ€gate MOSFETs (MuGFETs): technological challenges and future developments. IEEJ Transactions on Electrical and Electronic Engineering, 2009, 4, 386-391.	1.4	2
124	Atomic layer deposition of 25-nm-thin sidewall spacer for enhancement of FinFET performance. , 2011, , .		2
125	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
126	Experimental Study of Floating-Gate-Type Metalâ€“Oxideâ€“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

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127	(Invited) FinFET Flash Memory Technology. ECS Transactions, 2012, 45, 289-310.	0.5	2
128	Heated ion implantation technology for FinFET application. , 2014, , .		2
129	Experimental study of three-dimensional fin-channel charge trapping flash memories with titanium nitride and polycrystalline silicon gates. Japanese Journal of Applied Physics, 2014, 53, 04ED16.	1.5	2
130	On the drain bias dependence of long-channel silicon-on-insulator-based tunnel field-effect transistors. Japanese Journal of Applied Physics, 2017, 56, 04CD04.	1.5	2
131	Bias temperature instability in tunnel field-effect transistors. Japanese Journal of Applied Physics, 2017, 56, 04CA04.	1.5	2
132	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
133	Channel shape and interpoly dielectric material effects on electrical characteristics of floating-gate-type three-dimensional fin channel flash memories. Japanese Journal of Applied Physics, 2015, 54, 04DD04.	1.5	2
134	FinFET-Based Flex-Vth SRAM Design for Drastic Standby-Leakage-Current Reduction. IEICE Transactions on Electronics, 2008, E91-C, 534-542.	0.6	2
135	Experimental Comparisons between Tetrakis(dimethylamino)titanium Precursor-Based Atomic-Layer-Deposited and Physical-Vapor-Deposited Titaniumâ€“Nitride Gate for High-Performance Fin-Type Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2012, 51, 04DA05.	1.5	2
136	Programmable Conductivity of Silicon Nanowires with Side Gates by Surface Charging. Japanese Journal of Applied Physics, 2003, 42, 2422-2425.	1.5	1
137	A Novel Process for Fabrication of Gated Silicon Field Emitter Array Taking Advantage of Ion Bombardment Retarded Etching. Japanese Journal of Applied Physics, 2005, 44, 5191-5192.	1.5	1
138	Device Design Consideration forVth-Controllable Four-Terminal Double-Gate Metal-Oxide-Semiconductor Field-Effect Transistor. Japanese Journal of Applied Physics, 2005, 44, 2351-2356.	1.5	1
139	Flex-pass-gate SRAM for static noise margin enhancement using FinFET-based technology. Solid-State Electronics, 2008, 52, 1694-1702.	1.4	1
140	Independent-gate four-terminal FinFET SRAM for drastic leakage current reduction. , 2008, , .		1
141	(Invited) Advanced FinFET Technologies: Extension Doping, Vth Controllable CMOS Inverters and SRAM. ECS Transactions, 2010, 28, 385-401.	0.5	1
142	Correlative analysis between characteristics of 30-nm L<inf>G</inf> FinFETs and SRAM performance. , 2011, , .		1
143	Impact of atomic-scale structural design on ultra-short channel (3 nm) MOSFETs. , 2013, , .		1
144	Variability of short channel junctionless field-effect transistors caused by fluctuation of dopant concentration. , 2013, , .		1

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145	Analysis of Threshold Voltage Flexibility in Ultrathin-BOX SOI FinFETs. Journal of Low Power Electronics and Applications, 2014, 4, 110-118.	2.0	1
146	Study of gate leakage current paths in p-channel tunnel field-effect transistor by current separation measurement and device simulation. Japanese Journal of Applied Physics, 2015, 54, 034202.	1.5	1
147	(Invited) Floating Gate Type SOI-FinFET Flash Memories with Different Channel Shapes and Interpoly Dielectric Materials. ECS Transactions, 2016, 72, 11-24.	0.5	1
148	High-Frequency Precise Characterization of Intrinsic FinFET Channel. IEICE Transactions on Electronics, 2012, E95.C, 752-760.	0.6	1
149	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
150	Experimental Study of Floating-Gate-Type Metalâ€"Oxideâ€"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
151	Independent-Double-Gate FinFET SRAM Technology. IEICE Transactions on Electronics, 2013, E96.C, 413-423.	0.6	1
152	Silicon nanowire memory using surface charging and its operation analysis by scanning Maxwell-stress microcopy (SMM). , 0, , .		0
153	Flexible threshold voltage 4-terminal FinFETs. , 0, , .		0
154	Work function control of metal gates by interdiffused Ni-Ta with high thermal stability. , 0, , .		0
155	Doping integrity diagnostics of planar transistor channel structures by scanning nonlinear dielectric microscopy. Journal of Vacuum Science & Technology B, 2006, 24, 237.	1.3	0
156	Nitrogen gas flow ratio controlled PVD TiN metal gate technology for FinFET CMOS. , 2007, , .		0
157	Variable-Threshold-Voltage FinFETs with a Control-Voltage Range within the Logic-Level Swing Using Asymmetric Work-Function Double Gates. International Power Modulator Symposium and High-Voltage Workshop, 2008, , .	0.0	0
158	Minimization of Gate-Induced Drain Leakage by Controlling Gate Underlap Length for Low-Standby-Power Operation of 20-nm-Level Four-Terminal Silicon-on-Insulator Fin-Shaped Field Effect Transistor. Japanese Journal of Applied Physics, 2010, 49, 024203.	1.5	0
159	Variability analysis of TiN FinFET SRAM cell performance and its compensation using Vth-controllable independent double-gate FinFET. , 2010, , .		0
160	Static noise margin enhancement by flex-pass-gate SRAM. Electronics and Communications in Japan, 2011, 94, 57-64.	0.5	0
161	Experimental Comparisons between Tetrakis(dimethylamino)titanium Precursor-Based Atomic-Layer-Deposited and Physical-Vapor-Deposited Titaniumâ€"Nitride Gate for High-Performance Fin-Type Metalâ€"Oxideâ€"Semiconductor Field-Effect Transistors. Japanese Journal of Applied Physics, 2012, 51, 04DA05.	1.5	0
162	(Invited) On-Current Variability Sources of FinFETs: Analysis and Perspective for 14nm-Lg Technology. ECS Transactions, 2012, 45, 231-242.	0.5	0

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