

In-Man Kang

List of Publications by Year in descending order

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164
all docs

164
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164
times ranked

1159
citing authors

#	ARTICLE	IF	CITATIONS
1	RF Performance and Small-Signal Parameter Extraction of Junctionless Silicon Nanowire MOSFETs. IEEE Transactions on Electron Devices, 2011, 58, 1388-1396.	3.0	170
2	The Analysis of Dark Signals in the CMOS APS Imagers From the Characterization of Test Structures. IEEE Transactions on Electron Devices, 2004, 51, 178-184.	3.0	103
3	Analyses on Small-Signal Parameters and Radio-Frequency Modeling of Gate-All-Around Tunneling Field-Effect Transistors. IEEE Transactions on Electron Devices, 2011, 58, 4164-4171.	3.0	82
4	Non-quasi-static small-signal modeling and analytical parameter extraction of SOI FinFETs. IEEE Nanotechnology Magazine, 2006, 5, 205-210.	2.0	80
5	AlGaIn/GaN FinFET With Extremely Broad Transconductance by Side-Wall Wet Etch. IEEE Electron Device Letters, 2015, 36, 1008-1010.	3.9	64
6	Simulation study on effect of drain underlap in gate-all-around tunneling field-effect transistors. Current Applied Physics, 2013, 13, 1143-1149.	2.4	40
7	Fluoropolymer-based organic memristor with multifunctionality for flexible neural network system. Npj Flexible Electronics, 2021, 5, .	10.7	40
8	Silicon-compatible compound semiconductor tunneling field-effect transistor for high performance and low standby power operation. Applied Physics Letters, 2011, 99, .	3.3	36
9	Five-Step (Pad-Short-Pad Open-Short-Open) De-Embedding Method and Its Verification. IEEE Electron Device Letters, 2009, 30, 398-400.	3.9	34
10	Suppression of current collapse in AlGaIn/GaN MISHFET with carbon-doped GaN/undoped GaN multi-layered buffer structure. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1116-1121.	1.8	30
11	Al(In)N/GaN Fin-Type HEMT With Very-Low Leakage Current and Enhanced β & S Characteristic for Switching Applications. IEEE Electron Device Letters, 2016, 37, 855-858.	3.9	30
12	Low voltage operation of GaN vertical nanowire MOSFET. Solid-State Electronics, 2018, 145, 1-7.	1.4	29
13	Sol-Gel Processed Yttrium-Doped SnO ₂ Thin Film Transistors. Electronics (Switzerland), 2020, 9, 254.	3.1	29
14	Fabrication and Characterization of a Thin-Body Poly-Si 1T DRAM With Charge-Trap Effect. IEEE Electron Device Letters, 2019, 40, 566-569.	3.9	27
15	Design and analysis of Si-based arch-shaped gate-all-around (GAA) tunneling field-effect transistor (TFET). Current Applied Physics, 2015, 15, 208-212.	2.4	24
16	Separate Extraction of Gate Resistance Components in RF MOSFETs. IEEE Transactions on Electron Devices, 2007, 54, 1459-1463.	3.0	23
17	TMAH-based wet surface pre-treatment for reduction of leakage current in AlGaIn/GaN MIS-HEMTs. Solid-State Electronics, 2016, 124, 54-57.	1.4	23
18	1/f-Noise in AlGaIn/GaN Nanowire Omega-FinFETs. IEEE Electron Device Letters, 2017, 38, 252-254.	3.9	23

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19	Design optimization of tunneling field-effect transistor based on silicon nanowire PNP structure and its radio frequency characteristics. <i>Current Applied Physics</i> , 2012, 12, 673-677.	2.4	22
20	A polycrystalline-silicon dual-gate MOSFET-based 1T-DRAM using grain boundary-induced variable resistance. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	20
21	Extremely bias stress stable enhancement mode sol-gel-processed SnO ₂ thin-film transistors with Y ₂ O ₃ passivation layers. <i>Applied Surface Science</i> , 2021, 559, 149971.	6.1	20
22	Effects of sidewall MOS channel on performance of AlGaN/GaN FinFET. <i>Microelectronic Engineering</i> , 2015, 147, 155-158.	2.4	19
23	Effect of Mg Doping on the Electrical Performance of a Sol-Gel-Processed SnO ₂ Thin-Film Transistor. <i>Electronics (Switzerland)</i> , 2020, 9, 523.	3.1	16
24	Effect of Annealing Ambient on SnO ₂ Thin Film Transistors Fabricated via An Ethanol-based Sol-gel Route. <i>Electronics (Switzerland)</i> , 2019, 8, 955.	3.1	15
25	Deep Sub-60 mV/decade Subthreshold Swing in AlGaN/GaN FinMISHFETs with M-Plane Sidewall Channel. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 1699-1703.	3.0	14
26	RF Model of BEOL Vertical Natural Capacitor (VNCAP) Fabricated by 45-nm RF CMOS Technology and Its Verification. <i>IEEE Electron Device Letters</i> , 2009, 30, 538-540.	3.9	13
27	First demonstration of GaN-based vertical nanowire FET with top-down approach. , 2015, , .		13
28	Capacitorless one-transistor dynamic random-access memory based on asymmetric double-gate Ge/GaAs-heterojunction tunneling field-effect transistor with n-doped boosting layer and drain-underlap structure. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FG03.	1.5	13
29	Numerical Analysis on Effective Mass and Traps Density Dependence of Electrical Characteristics of a-IGZO Thin-Film Transistors. <i>Electronics (Switzerland)</i> , 2020, 9, 119.	3.1	13
30	Application of Genetic Algorithm for More Efficient Multi-Layer Thickness Optimization in Solar Cells. <i>Energies</i> , 2020, 13, 1726.	3.1	13
31	Scalable Model of Substrate Resistance Components in RF MOSFETs With Bar-Type Body Contact Considered Layout Dimensions. <i>IEEE Electron Device Letters</i> , 2009, 30, 404-406.	3.9	12
32	More Accurate and Reliable Extraction of Tunneling Resistance in Tunneling FET and Verification in Small-Signal Circuit Operation. <i>IEEE Transactions on Electron Devices</i> , 2013, 60, 3318-3324.	3.0	12
33	The Crucial Role of Quaternary Mixtures of Active Layer in Organic Indoor Solar Cells. <i>Energies</i> , 2019, 12, 1838.	3.1	12
34	Fully Coupled Finite-Element Analysis for Surface Discharge on Solid Insulation in Dielectric Liquid With Experimental Validation. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	2.1	10
35	Contact line curvature-induced molecular misorientation of a surface energy patterned organic semiconductor in meniscus-guided coating. <i>Applied Surface Science</i> , 2020, 504, 144362.	6.1	10
36	Control of silver nanowire-elastomer nanocomposite networks through elaborate direct printing for ultrathin and stretchable strain sensors. <i>Composites Science and Technology</i> , 2020, 200, 108471.	7.8	10

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37	Fabrication of AlGaIn/GaN Fin-Type HEMT Using a Novel T-Gate Process for Improved Radio-Frequency Performance. IEEE Access, 2020, 8, 139156-139160.	4.2	10
38	Enhancement Mode Flexible SnO ₂ Thin Film Transistors Via a UV/Ozone-Assisted Sol-Gel Approach. IEEE Access, 2020, 8, 123013-123018.	4.2	10
39	Analysis of the Sensing Margin of Silicon and Poly-Si 1T-DRAM. Micromachines, 2020, 11, 228.	2.9	10
40	Radio Frequency Performance of Hetero-Gate-Dielectric Tunneling Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 124301.	1.5	10
41	Enhanced switching ratio of sol-gel-processed Y ₂ O ₃ RRAM device by suppressing oxygen vacancy formation at high annealing temperatures. Semiconductor Science and Technology, 2022, 37, 015007.	2.0	10
42	Extraction of π -Type Substrate Resistance Based on Three-Port Measurement and the Model Verification up to 110 GHz. IEEE Electron Device Letters, 2007, 28, 425-427.	3.9	9
43	A New Noise Parameter Model of Short-Channel MOSFETs. Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE, 2007, , .	0.0	9
44	InGaAs/InP heterojunction-channel tunneling field-effect transistor for ultra-low operating and standby power application below supply voltage of 0.5ÅV. Current Applied Physics, 2013, 13, 2051-2054.	2.4	9
45	Mixed-Mode Simulation of Nanowire Ge/GaAs Heterojunction Tunneling Field-Effect Transistor for Circuit Applications. IEEE Journal of the Electron Devices Society, 2013, 1, 48-53.	2.1	9
46	GaN junctionless trigate field-effect transistor with deep-submicron gate length: Characterization and modeling in RF regime. Japanese Journal of Applied Physics, 2014, 53, 118001.	1.5	9
47	Fabrication of AlGaIn/GaN MISHEMT with dual-metal gate electrode and its performances. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	9
48	Polycrystalline-Silicon-MOSFET-Based Capacitorless DRAM With Grain Boundaries and Its Performances. IEEE Access, 2021, 9, 50281-50290.	4.2	9
49	Influence of Active Channel Layer Thickness on SnO ₂ Thin-Film Transistor Performance. Electronics (Switzerland), 2021, 10, 200.	3.1	9
50	Improved negative bias stability of sol-gel processed Ti-doped SnO ₂ thin-film transistors. Semiconductor Science and Technology, 2020, 35, 115023.	2.0	9
51	Environmentally and Electrically Stable Sol-Gel-Deposited SnO ₂ Thin-Film Transistors with Controlled Passivation Layer Diffusion Penetration Depth That Minimizes Mobility Degradation. ACS Applied Materials & Interfaces, 2022, 14, 10558-10565.	8.0	9
52	Non-Quasi-Static Modeling of Silicon Nanowire Metal-Oxide-Semiconductor Field-Effect Transistor and Its Model Verification up to 1 THz. Japanese Journal of Applied Physics, 2010, 49, 110206.	1.5	8
53	Normally-off AlGaIn/GaN-based MOS-HEMT with self-terminating TMAH wet recess etching. Solid-State Electronics, 2018, 141, 7-12.	1.4	8
54	One-Transistor Dynamic Random-Access Memory Based on Gate-All-Around Junction-Less Field-Effect Transistor with a Si/SiGe Heterostructure. Electronics (Switzerland), 2020, 9, 2134.	3.1	8

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55	Enhanced Switching Reliability of Sol-Gel-Processed Y ₂ O ₃ RRAM Devices Based on Y ₂ O ₃ Surface Roughness-Induced Local Electric Field. <i>Materials</i> , 2022, 15, 1943.	2.9	8
56	Flexible Sol-Gel-Processed Y ₂ O ₃ RRAM Devices Obtained via UV/Ozone-Assisted Photochemical Annealing Process. <i>Materials</i> , 2022, 15, 1899.	2.9	8
57	Highly sensitive ion sensor based on the MOSFET-BJT hybrid mode of a gated lateral BJT. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 44-49.	7.8	7
58	Silicon-compatible high-hole-mobility transistor with an undoped germanium channel for low-power application. <i>Applied Physics Letters</i> , 2013, 103, 222102.	3.3	7
59	Design optimization of vertical nanowire tunneling field-effect transistor based on AlGaSb/InGaAs heterojunction layer. <i>Current Applied Physics</i> , 2016, 16, 681-685.	2.4	7
60	Effects of Contact Potential and Sidewall Surface Plane on the Performance of GaN Vertical Nanowire MOSFETs for Low-Voltage Operation. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 1547-1552.	3.0	7
61	2.4 GHz ISM-Band Receiver Design in a 0.18 μm Mixed Signal CMOS Process. <i>IEEE Microwave and Wireless Components Letters</i> , 2007, 17, 736-738.	3.2	6
62	Analysis of operation characteristics of junctionless poly-Si 1T-DRAM in accumulation mode. <i>Semiconductor Science and Technology</i> , 2019, 34, 105007.	2.0	6
63	Importance of Blade-Coating Temperature for Diketopyrrolopyrrole-based Thin-Film Transistors. <i>Crystals</i> , 2019, 9, 346.	2.2	6
64	Capacitorless One-Transistor Dynamic Random-Access Memory Based on Double-Gate Metal-Oxide-Semiconductor Field-Effect Transistor with Si/SiGe Heterojunction and Underlap Structure for Improvement of Sensing Margin and Retention Time. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6023-6030.	0.9	6
65	Design and Optimization of Germanium-Based Gate-Metal-Core Vertical Nanowire Tunnel FET. <i>Micromachines</i> , 2019, 10, 749.	2.9	6
66	Gallium Nitride Normally Off MOSFET Using Dual-Metal-Gate Structure for the Improvement in Current Drivability. <i>Electronics (Switzerland)</i> , 2020, 9, 1402.	3.1	6
67	Improved Negative Bias Stress Stability of Sol-Gel-Processed Li-Doped SnO ₂ Thin-Film Transistors. <i>Electronics (Switzerland)</i> , 2021, 10, 1629.	3.1	6
68	Design and optimization of GaN-based betavoltaic cell for enhanced output power density. <i>International Journal of Energy Research</i> , 2021, 45, 799-806.	4.5	6
69	Design of Capacitorless DRAM Based on Polycrystalline Silicon Nanotube Structure. <i>IEEE Access</i> , 2021, 9, 163675-163685.	4.2	6
70	Design optimization of vertical double-gate tunneling field-effect transistors. <i>Journal of the Korean Physical Society</i> , 2012, 61, 1679-1682.	0.7	5
71	Compound Semiconductor Tunneling Field-Effect Transistor Based on Ge/GaAs Heterojunction with Tunneling-Boost Layer for High-Performance Operation. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 04CC04.	1.5	5
72	Simulation for silicon-compatible InGaAs-based junctionless field-effect transistor using InP buffer layer. <i>Semiconductor Science and Technology</i> , 2013, 28, 105007.	2.0	5

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73	Short-Channel Tunneling Field-Effect Transistor with Drain-Overlap and Dual-Metal Gate Structure for Low-Power and High-Speed Operations. Journal of Nanoscience and Nanotechnology, 2015, 15, 7430-7435.	0.9	5
74	Control of transconductance in high performance AlGaIn/GaN FinFETs. , 2015, , .		5
75	Performance enhancement of AlGaIn/GaN nanochannel omega-FinFET. Solid-State Electronics, 2017, 129, 196-199.	1.4	5
76	Polycrystalline silicon metal-oxide-semiconductor field-effect transistor-based stacked multi-layer one-transistor dynamic random-access memory with double-gate structure for the embedded systems. Japanese Journal of Applied Physics, 2020, 59, SGGB01.	1.5	5
77	Simulation of capacitorless dynamic random access memory based on junctionless FinFETs using grain boundary of polycrystalline silicon. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	5
78	Electrical Characteristics of Enhancement-Mode n-Channel Vertical GaN MOSFETs and the Effects of Sidewall Slope. Journal of Electrical Engineering and Technology, 2015, 10, 1131-1137.	2.0	5
79	Performance of Gate-All-Around Tunneling Field-Effect Transistors Based on Si_{1-x}Ge_x Layer. IEICE Transactions on Electronics, 2012, E95.C, 814-819.	0.6	4
80	Design Optimization and Analysis of InGaAs/InAs/InGaAs Heterojunction-Based Electron Hole Bilayer Tunneling FETs. Journal of Nanoscience and Nanotechnology, 2019, 19, 6070-6076.	0.9	4
81	Improving of Sensitivity of PbS Quantum Dot Based SWIR Photodetector Using P3HT. Materials, 2021, 14, 1488.	2.9	4
82	Experimental and simulation study of power performance improvement of GaN PIN betavoltaic cell. International Journal of Energy Research, 2021, 45, 17622-17630.	4.5	4
83	Design Optimization of Silicon-based Junctionless Fin-type Field-Effect Transistors for Low Standby Power Technology. Journal of Electrical Engineering and Technology, 2013, 8, 1497-1502.	2.0	4
84	Room-Temperature High-Detectivity Flexible Near-Infrared Photodetectors with Chalcogenide Silver Telluride Nanoparticles. ACS Omega, 2022, 7, 10262-10267.	3.5	4
85	Investigation of source-to-drain capacitance by DIBL effect of silicon nanowire MOSFETs. IEICE Electronics Express, 2010, 7, 1499-1503.	0.8	3
86	Heteromaterial Gate Tunneling Field-Effect Transistor for High-Speed and Radio-Frequency Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 8136-8140.	0.9	3
87	Fabrication of high performance AlGaIn/GaN FinFET by utilizing anisotropic wet etching in TMAH solution. , 2015, , .		3
88	Design Optimization of AlN/GaN-Based Double-Heterojunction Fin-Type High Electron Mobility Transistors for High On-State Current. Journal of Nanoscience and Nanotechnology, 2016, 16, 10193-10198.	0.9	3
89	A Novel Analysis of L_{ext} Dependent- $1/f$ Noise in In_{0.08}Al_{0.92}N/GaN. IEEE Electron Device Letters, 2018, 39, 1552-1555.	3.9	3
90	Design and Analysis of Gallium Nitride-Based p-i-n Diode Structure for Betavoltaic Cell with Enhanced Output Power Density. Micromachines, 2020, 11, 1100.	2.9	3

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91	Effect of High-Speed Blade Coating on Electrical Characteristics in Polymer Based Transistors. Journal of Nanoscience and Nanotechnology, 2020, 20, 5486-5490.	0.9	3
92	Design optimization of GaN diode with p-GaN multi-well structure for high-efficiency betavoltaic cell. Nuclear Engineering and Technology, 2021, 53, 1284-1288.	2.3	3
93	Single-event transient characteristics of vertical gate-all-around junctionless field-effect transistor on bulk substrate. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
94	Fabrication and Characterization of a GaN Light-emitting Diode (LED) with a Centered Island Cathode. Journal of the Optical Society of Korea, 2012, 16, 349-353.	0.6	3
95	Investigation of InAs/InGaAs/InP Heterojunction Tunneling Field-Effect Transistors. Journal of Electrical Engineering and Technology, 2014, 9, 1654-1659.	2.0	3
96	Analysis for DC and RF Characteristics Recessed-Gate GaN MOSFET Using Stacked TiO ₂ /Si ₃ N ₄ Dual-Layer Insulator. Materials, 2022, 15, 819.	2.9	3
97	Analytical thermal noise model suitable for circuit design using short-channel MOSFETs. , 0, , .		2
98	Active and Passive RF Device Compact Modeling in CMOS Technologies. , 2006, , .		2
99	Compact modeling of silicon nanowire MOSFET for radio frequency applications. Microwave and Optical Technology Letters, 2011, 53, 471-473.	1.4	2
100	Simulation study on scaling limit of silicon tunneling field-effect transistor under tunneling-predominance. IEICE Electronics Express, 2012, 9, 828-833.	0.8	2
101	Design of a recessed-gate GaN-based MOSFET using a dual gate dielectric for high-power applications. Journal of the Korean Physical Society, 2014, 65, 1579-1584.	0.7	2
102	Improvement of Current Efficiency at High Field Regime Via Description of Roll-off Characteristic in Model Device of OLEDs. Molecular Crystals and Liquid Crystals, 2014, 599, 79-85.	0.9	2
103	Analysis of Radio Frequency Performance on GaAs/InGaAs Heterojunction Tunneling Field-Effect Transistor which Applicable for Green Energy System Applications. , 2014, , .		2
104	Design and Analysis of CMOS-Compatible III-V Compound Electron-Hole Bilayer Tunneling Field-Effect Transistor for Ultra-Low-Power Applications. Journal of Nanoscience and Nanotechnology, 2015, 15, 7486-7492.	0.9	2
105	Analyses on RF Performances of Silicon-Compatible InGaAs-Based Planar-Type and Fin-Type Junctionless Field-Effect Transistors. Journal of Nanoscience and Nanotechnology, 2015, 15, 7615-7619.	0.9	2
106	Design Optimization of InAs-Based Gate-All-Around (GAA) Arch-Shaped Tunneling Field-Effect Transistor (TFET). Journal of Nanoscience and Nanotechnology, 2016, 16, 10199-10203.	0.9	2
107	Performance comparison between p ⁺ -i-n and p ⁺ -n junction tunneling field-effect transistors. Japanese Journal of Applied Physics, 2018, 57, 06HC01.	1.5	2
108	Design optimization InGaAs/GaAsSb-based heterojunction Gate-all-around (GAA) arch-shaped tunneling field-effect transistor (A-TFET). , 2018, , .		2

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109	Analysis of Electrical Characteristics of InAlGaN/GaN-Based High Electron Mobility Transistors with AlGaN Back Barriers. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6008-6015.	0.9	2
110	Design and analysis of logic inverter using antimonide-based compound semiconductor junctionless transistor. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	2
111	Microwave analysis of SiGe heterojunction double-gate tunneling field-effect transistor through its small-signal equivalent circuit. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019, 29, e21678.	1.2	2
112	Recessed-Gate GaN Metal-Insulator-Semiconductor High-Electron-Mobility Transistor Using a Dual Gate-Insulator Employing TiO ₂ /SiN. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4678-4683.	0.9	2
113	Effects of Proton Irradiation on the Current Characteristics of SiN-Passivated AlGaIn/GaN MIS-HEMTs Using a TMAH-Based Surface Pre-Treatment. <i>Micromachines</i> , 2021, 12, 864.	2.9	2
114	Extraction and modeling of gate electrode resistance in rf MOSFETs. , 2005, , .		1
115	Analysis on RF Parameters of Nanoscale Tunneling Field-Effect Transistor Based on InAs/InGaAs/InP Heterojunctions. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 8133-8136.	0.9	1
116	Rigorous Design and Analysis of Tunneling Field-Effect Transistor with Hetero-Gate-Dielectric and Tunneling-Boost n-Layer. <i>IEICE Transactions on Electronics</i> , 2013, E96.C, 644-648.	0.6	1
117	Fabrication and Characterization of GaN-based Light-emitting Diode (LED) with Triangle-type Structure. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 599, 163-169.	0.9	1
118	Dependence of device performances on fin dimensions in AlGaIn/GaN recessed-gate nanoscale FinFET. , 2014, , .		1
119	Characteristics of temperature rise in variable inductor employing magnetorheological fluid driven by a high-frequency pulsed voltage source. <i>Journal of Applied Physics</i> , 2015, 117, 17D508.	2.5	1
120	Design optimization of Si/Ge-based heterojunction arch-shaped gate-all-around (GAA) tunneling field-effect transistor (TFET) which applicable for future mobile communication systems. , 2016, , .		1
121	Electrical Performances of InN/GaN Tunneling Field-Effect Transistor. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8355-8359.	0.9	1
122	Analysis of tunneling field-effect transistor with germanium source junction using small-signal equivalent circuit. <i>Microwave and Optical Technology Letters</i> , 2018, 60, 2922-2927.	1.4	1
123	Design Optimization of InGaAs/GaAsSb-Based <i>P</i> -Type Gate-All-Around Arch-Shaped Tunneling Field-Effect Transistor. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6762-6766.	0.9	1
124	Numerical Design of Carrier Transporting Layer in Top-Gate InGaZnO Thin-Film Transistors for Controlling Potential Energy. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3847-3852.	0.9	1
125	Design of a Capacitorless Dynamic Random Access Memory Based on Ultra-Thin Polycrystalline Silicon Junctionless Field-Effect Transistor with Dual-Gate. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4223-4229.	0.9	1
126	Analysis of Grain Boundary Dependent Memory Characteristics in Poly-Si One-Transistor Dynamic Random-Access Memory. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4216-4222.	0.9	1

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127	Design of a Capacitorless Dynamic Random Access Memory Based on Junctionless Dual-Gate Field-Effect Transistor with a Silicon-Germanium/Silicon Nanotube. Journal of Nanoscience and Nanotechnology, 2021, 21, 4235-4242.	0.9	1
128	GaN-Based Junctionless Field-Effect Transistor with Hetero-Gate Dielectric for Enhancement of Direct Current and Radio Frequency Performance. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 1114-1118.	0.5	1
129	Organic Diodes with Highly Improved Charge Injection and Transport via One-Pot Treatment Process. Science of Advanced Materials, 2014, 6, 2483-2486.	0.7	1
130	Evaluation of Radio-Frequency Performance of Gate-All-Around Ge/GaAs Heterojunction Tunneling Field-Effect Transistor with Hetero-Gate-Dielectric by Mixed-Mode Simulation. Journal of Electrical Engineering and Technology, 2014, 9, 2070-2078.	2.0	1
131	Electrohydrodynamic Analysis of Dielectric Guide Flow Due to Surface Charge Density Effects in Breakdown Region. Journal of Electrical Engineering and Technology, 2015, 10, 647-652.	2.0	1
132	Theoretical Analysis of Prospects of Organic Photovoltaics as a Multi-Functional Solar Cell and Laser Power Converter for Wireless Power Transfer. Journal of Nanoscience and Nanotechnology, 2020, 20, 4878-4883.	0.9	1
133	Design and analysis of vertical-channel gallium nitride (GaN) junctionless nanowire transistors (JNT). Journal of Nanoscience and Nanotechnology, 2014, 14, 8130-5.	0.9	1
134	Effect of Work-function Variation on Transfer Characteristics and Memory Performances for Gate-all-around JLFET based Capacitorless DRAM. Journal of Semiconductor Technology and Science, 2021, 21, 381-389.	0.4	1
135	Effects of electrical stress on mid-gap interface trap density and capture cross sections in n-MOSFETs characterized by pulsed interface probing measurements. Microelectronics Reliability, 2004, 44, 47-51.	1.7	0
136	Complete Quasi-Static Modeling of 130nm RF MOSFETs. , 2006, , .		0
137	A new non-quasi-static small signal model of SOI FinFETs. , 2006, , .		0
138	Modeling and RF analysis of silicon inter-band tunnel diode with THz cut-off frequency. , 2010, , .		0
139	A Reliable Extraction Method for Source and Drain Series Resistances in Silicon Nanowire Metal-Oxide-Semiconductor Field-Effect-Transistors (MOSFETs) Based on Radio-Frequency Analysis. Journal of Nanoscience and Nanotechnology, 2014, 14, 8219-8224.	0.9	0
140	Highly enhanced charge injection and bulk transport in organic gap α -type diodes via one α -pot treatment process: experiment and simulation. Micro and Nano Letters, 2014, 9, 887-890.	1.3	0
141	RF performance of InGaAs-based T-gate junctionless field-effect transistors which applicable for high frequency network systems. , 2015, , .		0
142	Design Optimization and Analysis of InGaAs-Based Junctionless Fin Type Field-Effect Transistors (FinFETs) with $L_{\text{gate}}/L_{\text{SUB}}/G_{\text{gate}}/G_{\text{SUB}} = 10$ nm. Journal of Nanoscience and Nanotechnology, 2016, 16, 10187-10192.	0.9	0
143	Enhancement-Mode GaN-Based Junctionless Vertical Surrounding-Gate Transistor with Dual-Material Gate Structure for High-Frequency Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 10204-10209.	0.9	0
144	Novel AlGaIn/GaN ω -FinFETs with excellent device performances. , 2016, , .		0

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145	Nonlinear Transport in Organic Thin Film Transistors with Soluble Small Molecule Semiconductor. Journal of Nanoscience and Nanotechnology, 2016, 16, 2779-2782.	0.9	0
146	Simulation of One-Transistor Dynamic Random-Access Memory Based on Symmetric Double-Gate Si Junctionless Transistor. Journal of Nanoscience and Nanotechnology, 2018, 18, 6593-6597.	0.9	0
147	Analysis of SiGe Heterojunction Tunneling Field-Effect Transistor in the Microwave Regime Through Its Small-Signal Equivalent Circuit. , 2018, , .		0
148	Design Optimization of Ge/GaAs-Based Heterojunction Gate-All-Around (GAA) Arch-Shaped Tunneling Field-Effect Transistor (A-TFET). Journal of Nanoscience and Nanotechnology, 2018, 18, 6602-6605.	0.9	0
149	Simulation for Electrical Performances of the Capacitorless Dynamic Random Access Memory Based on Junctionless FinFETs. Journal of Nanoscience and Nanotechnology, 2019, 19, 6755-6761.	0.9	0
150	Alternative approach to optimizing optical spacer layer thickness in solar cell using evolutionary algorithm. , 2019, , .		0
151	Optimization of GAA vertical nanowire performance for logic application. , 2019, , .		0
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