List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Channel Mobility Model of Nano-Node MOSFETs Incorporating Drain-and-Gate Electric Fields. Crystals, 2022, 12, 295. | 2.2 | 3 |
| 2 | High-Drain Field Impacting Channel-Length Modulation Effect for Nano-Node N-Channel FinFETs. Crystals, 2021, 11, 262. | 2.2 | 5 |
| 3 | Study of N-doping in (Bi2MoO6,ÂMoO3)/SnOx:N photocatalys in the degradation of RhB using visible light. Modern Physics Letters B, 2021, 35, . | 1.9 | 1 |
| 4 | Channel Surface Integrity with 2.4nm High-k Gate Dielectric under DPN Treatment at Different Annealing Temperatures. , 2021, , . | | 0 |
| 5 | Integrity of n-type channel surface for nano-node high-k gate dielectric. , 2021, , . | | Ο |
| 6 | ON/OFF current of nano-node field-effect transistors on p-substrate or SOI substrate. , 2021, , . | | 0 |
| 7 | Q-Factor Performance of 28 nm-Node High-K Gate Dielectric under DPN Treatment at Different Annealing Temperatures. Electronics (Switzerland), 2020, 9, 2086. | 3.1 | 10 |
| 8 | Hot Carrier Stress Sensing Bulk Current for 28 nm Stacked High-k nMOSFETs. Electronics (Switzerland), 2020, 9, 2095. | 3.1 | 6 |
| 9 | Uniformity of Gate Dielectric for I/O and Core HK/MG pMOSFETs with Nitridation Treatments. Journal of Electronic Materials, 2020, 49, 6764-6775. | 2.2 | 2 |
| 10 | On the Nitrogen Doping in Erbium and Nitrogen Codoped Magnesium Zinc Oxide Diode by Spray Pyrolysis. Crystals, 2020, 10, 34. | 2.2 | 3 |
| 11 | Nano-node n-type Gate Dielectric Integrity and Uniformity Correlated to Nitridation Process. , 2019, , . | | 1 |
| 12 | Punch-through and DIBL Effects Exposing Nano-node SOI FinFETs under Heat Stress. , 2019, , . | | 0 |
| 13 | Electrical Characteristics of n-Type FinFETs Under <inline-formula> <tex-math notation="LaTeX">\$V_{T}\$ </tex-math </inline-formula> Ion Implantation on SOI Substrate. IEEE Transactions on Plasma Science, 2019, 47, 1145-1151. | 1.3 | 2 |
| 14 | Effects of ultra-thin Si-fin body widths upon SOI PMOS FinFETs. Modern Physics Letters B, 2018, 32, 1850157. | 1.9 | 2 |
| 15 | Thermal stress probing the channel-length modulation effect of nano n-type FinFETs. Microelectronics Reliability, 2018, 83, 260-270. | 1.7 | 4 |
| 16 | Thickness Study of Er-Doped Magnesium Zinc Oxide Diode by Spray Pyrolysis. Crystals, 2018, 8, 454. | 2.2 | 3 |
| 17 | Electrical and Physical Characteristics of WO3/Ag/WO3 Sandwich Structure Fabricated with Magnetic-Control Sputtering Metrology â€. Sensors, 2018, 18, 2803. | 3.8 | 19 |
| 18 | I-V model of nano nMOSFETs incorporating drift and diffusion current. Vacuum, 2018, 155, 76-82. | 3.5 | 6 |

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| 19 | Electrical characteristics of WO <inf>3</inf> /Ag/WO <inf>3</inf> sandwich structure fabricated with magnetic-control sputtering metrology. , 2018, , . | | 0 |
| 20 | The \hat{l} 4eq fitting for mixed current model of MOSFETs considering horizontal electric field. , 2018, , . | | 0 |
| 21 | Drive current behaviors of multi N-channel FinFETs under different VT implant energies. , 2018, , . | | 0 |
| 22 | Observation of degradation and recovery of stacked HfOx/ZrOy/HfOx MOSFETs. , 2018, , . | | 0 |
| 23 | Off-state current behaviors of 28nm-node nMOSFETs under negative gate bias. , 2018, , . | | 0 |
| 24 | Carrier concentration of calcium zinc oxide with different calcium contents deposited through spray pyrolysis. Microsystem Technologies, 2018, 24, 4267-4272. | 2.0 | 2 |
| 25 | Electrical stress probing recovery efficiency of 28â€⁻nm HK/MG nMOSFETs using decoupled plasma nitridation treatment. Vacuum, 2018, 153, 117-121. | 3.5 | 9 |
| 26 | DIBL effect gauging the integrity of nano-node n-channel FinFETs. , 2017, , . | | 1 |
| 27 | The DIBL effect of SOI p-channel FinFETs under various SDE lengths. , 2017, , . | | 0 |
| 28 | Performance characteristics of p-channel FinFETs with varied Si-fin extension lengths for source and drain contacts. Semiconductors, 2017, 51, 1650-1655. | 0.5 | 2 |
| 29 | Electrical stress probing recovery efficiency of 28nm HK/MG nMOSFETs under different nitrogen concentration in nitridation. , 2017, , . | | 1 |
| 30 | Voltage stress exposing degradation rate of 28nm HK/MG nMOSFETs under different nitridation annealing temperatures. , 2017, , . | | 0 |
| 31 | Isolation integrity of drain/gate contact exposed with source/drain extension length for SOI p-channel FinFETs. , 2017, , . | | 0 |
| 32 | I-V model of nano nMOSFETs incorporating drift and diffusion current. , 2017, , . | | 2 |
| 33 | Photocatalytic study of zinc oxide with different bismuth doping. , 2016, , . | | 2 |
| 34 | A high aspect ratio silicon-fin FinFET fabricated upon SOI wafer. Solid-State Electronics, 2016, 126, 46-50. | 1.4 | 17 |
| 35 | Heat stress exposing performance of deep-nano HK/MG nMOSFETs using DPN or PDA treatment. Microelectronics Reliability, 2015, 55, 2203-2207. | 1.7 | 5 |
| 36 | Electrical performance of dense and isolated n-type FinFETs in micro-loading effect. , 2015, , . | | 1 |

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| 37 | Reducing the rework in the photo-lithography process of wafer-bump assembly with quality management. , 2015, , . | | 0 |
| 38 | Heating stress probing electrical performance of multiple N-channel FinFETs with V <inf>T</inf> doping energies. , 2015, , . | | 0 |
| 39 | CIP metrology improving the bump yield in photo-lithography process. , 2015, , . | | Ο |
| 40 | Electrical characteristics of multi-gate P-channel FinFETs with V <inf>T</inf> implanting energies under temperature stress. , 2015, , . | | 0 |
| 41 | Comparison of electrical characteristics for SiONx and HfZrOx gate dielectrics of MOSFETs with decoupled plasma nitridation treatment. Microelectronic Engineering, 2015, 138, 97-101. | 2.4 | 2 |
| 42 | Conductivity Study of Nitrogen-Doped Magnesium Zinc Oxide Prepared by Spray Pyrolysis. Materials Focus, 2015, 4, 223-226. | 0.4 | 3 |
| 43 | Gate Leakage for 28 nm Stacked HfZrO _{<italic>x</italic>} Dielectric of p-Channel MOSFETs After Decoupled Plasma Nitridation Treatment With Annealing Temperatures. IEEE Transactions on Plasma Science, 2014, 42, 3712-3715. | 1.3 | 7 |
| 44 | Modification of Early Effect for 28-nm nMOSFETs Deposited With HfZrO _{<italic>x</italic>} Dielectric After DPN Process Accompanying Nitrogen Concentrations. IEEE Transactions on Plasma Science, 2014, 42, 3747-3750. | 1.3 | 5 |
| 45 | Gate Leakage Characteristics for 28 nm HfZrO _{<italic>x</italic>} pMOSFETs After DPN Process Treatment With Different Nitrogen Concentration. IEEE Transactions on Plasma Science, 2014, 42, 3703-3705. | 1.3 | 7 |
| 46 | GIDL and gated-diode metrologies for 28nm HK/MG nMOSFETs in nitridation annealing temperatures. , 2014, , . | | 0 |
| 47 | Electrical quality of 28nm HK/MG MOSFETs with PDA and DPN treatment. , 2014, , . | | 0 |
| 48 | High Quality of 0.18μm CMOS 5.2GHz cascode LNA for RFID tag applications. , 2013, , . | | 2 |
| 49 | The side effects and the effects of thickness of source/drain fin on P-Type FinFET devices. , 2013, , . | | Ο |
| 50 | The side effects on N-Type FinFET Devices. , 2013, , . | | 0 |
| 51 | The adjustment of threshold voltage on P-Type FinFET devices. , 2013, , . | | 0 |
| 52 | Promising N-Type FinFET devices without or with cobalt-silicide applied to the gate. , 2013, , . | | 0 |
| 53 | Trend of subthreshold swing with DPN process for 28nm N/PMOSFETs. , 2013, , . | | 1 |
| 54 | Probing moving charge distribution of biaxial and CESL strained PMOSFETs with body effect. , 2013, , . | | 0 |

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| 55 | Body effect of SiGe and CESL strained nano-node NMOSFETs on (100) silicon substrate. , 2013, , . | | 1 |
| 56 | Next promising P-Type FinFET devices without or with cobalt-silicide applied to the gate. , 2013, , . | | 0 |
| 57 | Strained pMOSFETs with SiGe channel and embedded SiGe source/drain stressor under heating and hot-carrier stresses. , 2013, , . | | Ο |
| 58 | Characteristics and hot-carrier effects of strained pMOSFETs with SiGe channel and embedded SiGe source/drain stressor. , 2013, , . | | 0 |
| 59 | The improvement of MOSFET electric characteristics through strain engineering by refilled SiGe as Source and Drain. , 2013, , . | | Ο |
| 60 | The enhancement of MOSFET electric performance through strain engineering by refilled sige as Source and Drain. , 2013, , . | | 2 |
| 61 | Si-capping thicknesses impacting compressive strained MOSFETs with temperature effect. , 2013, , . | | Ο |
| 62 | Electrical performance of a-Si:H and poly-Si TFTs with heating stress. , 2013, , . | | 2 |
| 63 | Time dependent dielectric breakdown (TDDB) characteristics of metal–oxide–semiconductor capacitors with HfLaO and HfZrLaO ultra-thin gate dielectrics. Solid-State Electronics, 2012, 77, 2-6. | 1.4 | 5 |
| 64 | A study of characteristics of halogen-free prevented solder materials. , 2012, , . | | 0 |
| 65 | Effective Edge Width for 65-nm pMOSFETs and Their Variations Under CHC Stress. IEEE Electron Device Letters, 2011, 32, 584-586. | 3.9 | 2 |
| 66 | SOP package surface discoloration after PCT test. , 2011, , . | | 1 |
| 67 | Drop test for Sn96.7-Ag3.7 polymer core solder ball in BGA package. , 2011, , . | | Ο |
| 68 | Deterioration of junction performance with temperature effect for 45 nm Si-capping MOSFETs on <110> silicon substrate. , 2011, , . | | 0 |
| 69 | Nano-scale Si-capping thicknesses impacting junction performance on <110> silicon substrate. , 2011, , . | | 2 |
| 70 | Embedded SiGe source/drain and temperature degrading junction performance on & amp;#x003C;110> 45 nm MOSFETs. , 2011, , . | | 0 |
| 71 | Study of temperature effects of mobility, swing, and early voltages on strained MOSFET devices. , 2011, , . | | 0 |
| 72 | Drive current and hot carrier reliability improvements of high-aspect-ratio n-channel fin-shaped field effect transistor with high-tensile contact etching stop layer. Applied Physics Letters, 2011, 99, . | 3.3 | 7 |

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| 73 | Oxygenous reflow affecting performance of Pb-free TFBGA assembly. , 2011, , . | | Ο |
| 74 | Solder stability for Pb-free HBGA assembly with oxygenous reflow. , 2011, , . | | 1 |
| 75 | Reflow influence for Sn96.7-Ag3.7 polymer core solder ball in BGA package. , 2011, , . | | 0 |
| 76 | Nickel solder ball performance for Pb-free LFBGA assembly under oxygenous reflow. , 2011, , . | | 0 |
| 77 | ELFR experiment test verifying anomaly of nano-DRAM products in W-plug process. , 2010, , . | | 0 |
| 78 | Mobility enhancement on nano-strained NMOSFET with epitaxial silicon buffer layers. , 2010, , . | | 0 |
| 79 | Study of nano-regime strained MOSFETs with temperature effects. , 2010, , . | | 0 |
| 80 | A study to performance of electroplating solder bump in assembly. , 2010, , . | | 2 |
| 81 | Performance of silver-glue attachment technology in assembly. , 2010, , . | | 0 |
| 82 | Efficiency of dispenser with nozzle technology in assembly. , 2010, , . | | 0 |
| 83 | Gate-to-drain capacitance verifying the continuous-wave green laser crystallization n-TFT trapped charges distribution under dc voltage stress. Applied Physics Letters, 2009, 95, 253503. | 3.3 | 2 |
| 84 | Influence of plastic assembly yield with molding technology. , 2009, , . | | 1 |
| 85 | A study to stencil printing technology for solder bump assembly. , 2009, , . | | 1 |
| 86 | Efficiency analysis of electroplating gold bump in assembly. , 2009, , . | | 3 |
| 87 | Optimization of solderability for 2.4GHz RF printed-circuit-board products. , 2009, , . | | Ο |
| 88 | An efficient metrology to sense micro-metal contamination in fine-pitch package. , 2009, , . | | 2 |
| 89 | Analysis of promising copper wire bonding in assembly consideration. , 2009, , . | | 2 |
| 90 | The switch of the worst case on NBTI and hot-carrier reliability for 0.13μm pMOSFETs. Applied Surface Science, 2008, 254, 6186-6189. | 6.1 | 8 |

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| 91 | ECR Plasma-Enhanced Au/Al Bondability in Fine-Pad-Pitch BGA Assembly. , 2006, , . | | 0 |