Munehiro Tada

List of Publications by Year in descending order

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Μυνεμίρο Τλόλ

| # | Article | IF | CITATIONS |
|----|---|------------------|-----------|
| 1 | Preparation and characterization of MgF2 thin film by a trifluoroacetic acid method. Thin Solid Films, 1997, 304, 252-255. | 1.8 | 73 |
| 2 | Sol-gel Processing and Characterization of Alkaline Earth and Rare-earth Fluoride Thin Films. Journal of Materials Research, 1999, 14, 1610-1616. | 2.6 | 69 |
| 3 | Controlling Factors for the Conversion of Trifluoroacetate Sols into Thin Metal Fluoride Coatings. Journal of Sol-Gel Science and Technology, 2000, 19, 311-314. | 2.4 | 56 |
| 4 | Polymer Solid-Electrolyte Switch Embedded on CMOS for Nonvolatile Crossbar Switch. IEEE Transactions on Electron Devices, 2011, 58, 4398-4406. | 3.0 | 56 |
| 5 | Sol–gel synthesis of inorganic complex fluorides using trifluoroacetic acid. Journal of Fluorine Chemistry, 2000, 105, 65-70. | 1.7 | 48 |
| 6 | Low temperature (≤ 380°C) and high performance Ge CMOS technology with novel source/drain by metal-induced dopants activation and high-k/metal gate stack for monolithic 3D integration. , 2008, , . | | 36 |
| 7 | Nonvolatile Crossbar Switch Using \$hbox{TiO}_{x}/ hbox{TaSiO}_{y}\$ Solid Electrolyte. IEEE Transactions on Electron Devices, 2010, 57, 1987-1995. | 3.0 | 36 |
| 8 | Chemical Structure Effects of Ring-Type Siloxane Precursors on Properties of Plasma-Polymerized Porous SiOCH Films. Journal of the Electrochemical Society, 2007, 154, D354. | 2.9 | 33 |
| 9 | Low-Temperature, Low-Pressure Chemical Vapor Deposition and Solid Phase Crystallization of Silicon–Germanium Films. Journal of the Electrochemical Society, 2009, 156, D23. | 2.9 | 32 |
| 10 | Improving Reliability of Copper Dual-Damascene Interconnects by Impurity Doping and Interface Strengthening. IEEE Transactions on Electron Devices, 2007, 54, 1867-1877. | 3.0 | 30 |
| 11 | High performance germanium N+â^•P and P+â^•N junction diodes formed at low Temperature (⩽380°C) usin metal-induced dopant activation. Applied Physics Letters, 2008, 93, . | g _{3.3} | 29 |
| 12 | Self-nucleation free and dimension dependent metal-induced lateral crystallization of amorphous germanium for single crystalline germanium growth on insulating substrate. Journal of Applied Physics, 2008, 104, 064501. | 2.5 | 29 |
| 13 | Improved Off-State Reliability of Nonvolatile Resistive Switch With Low Programming Voltage. IEEE Transactions on Electron Devices, 2012, 59, 2357-2362. | 3.0 | 28 |
| 14 | Improved ON-State Reliability of Atom Switch Using Alloy Electrodes. IEEE Transactions on Electron Devices, 2013, 60, 3534-3540. | 3.0 | 27 |
| 15 | Programmable cell array using rewritable solid-electrolyte switch integrated in 90nm CMOS. , 2011, , . | | 26 |
| 16 | Sol-Gel Processing of LaF ₃ Thin Films. Journal of the Ceramic Society of Japan, 1998, 106, 124-126. | 1.3 | 24 |
| 17 | Comprehensive Chemistry Designs in Porous SiOCH Film Stacks and Plasma Etching Gases for Damageless Cu Interconnects in Advanced ULSI Devices. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 469-480. | 1.7 | 23 |
| 18 | Performance Modeling of Low-\$k\$/Cu Interconnects for 32-nm-Node and Beyond. IEEE Transactions on Electron Devices, 2009, 56, 1852-1861. | 3.0 | 22 |

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|----|---|-----|-----------|
| 19 | Electronic Conduction Mechanism in Atom Switch Using Polymer Solid Electrolyte. IEEE Transactions on Electron Devices, 2012, 59, 3574-3577. | 3.0 | 20 |
| 20 | Effects of Material Interfaces in Cu/Low- <tex>\$kappa\$</tex> Damascene Interconnects on Their Performance and Reliability. IEEE Transactions on Electron Devices, 2004, 51, 1867-1876. | 3.0 | 19 |
| 21 | Low Temperature Germanium Growth on Silicon Oxide Using Boron Seed Layer and In Situ Dopant Activation. Journal of the Electrochemical Society, 2010, 157, H371. | 2.9 | 19 |
| 22 | Metal-induced dopant (boron and phosphorus) activation process in amorphous germanium for monolithic three-dimensional integration. Journal of Applied Physics, 2009, 106, . | 2.5 | 18 |
| 23 | PZT MIM Capacitor With Oxygen-Doped Ru-Electrodes for Embedded FeRAM Devices. IEEE Transactions on Electron Devices, 2005, 52, 2227-2235. | 3.0 | 17 |
| 24 | Highly thermal-stable, plasma-polymerized BCB polymer film. Plasma Sources Science and Technology, 2003, 12, S80-S88. | 3.1 | 14 |
| 25 | 0.5-V Highly Power-Efficient Programmable Logic using Nonvolatile Configuration Switch in BEOL. , 2015, , . | | 14 |
| 26 | Feasibility Study of 45-nm-Node Scaled-Down Cu Interconnects With Molecular-Pore-Stacking (MPS) SiOCH Films. IEEE Transactions on Electron Devices, 2007, 54, 797-806. | 3.0 | 13 |
| 27 | Via-Switch FPGA: Highly Dense Mixed-Grained Reconfigurable Architecture With Overlay Via-Switch Crossbars. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2723-2736. | 3.1 | 13 |
| 28 | Robust Cu Dual Damascene Interconnects With Porous SiOCH Films Fabricated by Low-Damage Multi-Hard-Mask Etching Technology. IEEE Transactions on Semiconductor Manufacturing, 2006, 19, 455-464. | 1.7 | 12 |
| 29 | Robust porous SiOCH/Cu interconnects with ultrathin sidewall protection liners. IEEE Transactions on Electron Devices, 2006, 53, 1169-1179. | 3.0 | 12 |
| 30 | Improved Switching Voltage Variation of Cu Atom Switch for Nonvolatile Programmable Logic. IEEE Transactions on Electron Devices, 2014, 61, 3827-3832. | 3.0 | 10 |
| 31 | A 171k-LUT Nonvolatile FPGA using Cu Atom-Switch Technology in 28nm CMOS. , 2020, , . | | 10 |
| 32 | Sol-gel preparation and optical properties of MgF 2 thin films containing metal and semiconductor nanoparticles. Scripta Materialia, 2001, 44, 2031-2034. | 5.2 | 8 |
| 33 | Low temperature boron and phosphorus activation in amorphous germanium using Ni- and Co-induced crystallization and its application for three-dimensional integrated circuits. Applied Physics Letters, 2008, 93, . | 3.3 | 8 |
| 34 | ON-State Reliability of Solid-Electrolyte Switch under Pulsed Alternating Current Stress for Programmable Logic Device. Japanese Journal of Applied Physics, 2011, 50, 074201. | 1.5 | 8 |
| 35 | Robust Low Oxygen Content Cu Alloy for Scaled-Down ULSI Interconnects Based on Metallurgical Thermodynamic Principles. IEEE Transactions on Electron Devices, 2009, 56, 1579-1587. | 3.0 | 7 |
| 36 | NanoBridge-Based FPGA in High-Temperature Environments. IEEE Micro, 2017, 37, 32-42. | 1.8 | 7 |

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|----|--|--------------------|---------------|
| 37 | Porous Low-kImpacts on Performance of Advanced LSI Devices with GHz Operations. Japanese Journal of Applied Physics, 2009, 48, 04C031. | 1.5 | 6 |
| 38 | Improved Resistive Switching Characteristics of NiO Resistance Random-Access Memory Using Post-Plasma-Oxidation Process. Japanese Journal of Applied Physics, 2011, 50, 04DD13. | 1.5 | 6 |
| 39 | Low-Power Crossbar Switch With Two-Varistor Selected Complementary Atom Switch (2V-1CAS;) Tj ETQq1 1 (|).784314 rg 3.0 | gBT /Overlock |
| 40 | ON-State Reliability of Solid-Electrolyte Switch under Pulsed Alternating Current Stress for Programmable Logic Device. Japanese Journal of Applied Physics, 2011, 50, 074201. | 1.5 | 5 |
| 41 | A Silicon-on-Thin-Buried-Oxide CMOS Microcontroller with Embedded Atom-Switch ROM. IEEE Micro, 2015, 35, 13-23. | 1.8 | 5 |
| 42 | Set/Reset Switching Model of Cu Atom Switch Based on Electrolysis. IEEE Transactions on Electron Devices, 2017, 64, 1812-1817. | 3.0 | 5 |
| 43 | 33.3 Via-Switch FPGA: 65nm CMOS Implementation and Architecture Extension for Al Applications. , 2020, , . | | 5 |
| 44 | Via-Shape-Control for Copper Dual-Damascene Interconnects With Low-k Organic Film. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 256-262. | 1.7 | 4 |
| 45 | Utility of high on-off ratio, high off resistance rewritable device to EEPROM for ultra-low voltage operation of steep subthreshold slope FETs. , 2014, , . | | 4 |
| 46 | Three-Terminal Nonvolatile Resistive-Change Device Integrated in Cu-BEOL. IEEE Transactions on Electron Devices, 2014, 61, 505-510. | 3.0 | 4 |
| 47 | ON-state Reliability of Cu Atom Switch Under Current–Temperature Stress. IEEE Transactions on Electron Devices, 2015, 62, 2992-2997. | 3.0 | 4 |
| 48 | A highly-dense mixed grained reconfigurable architecture with overlay crossbar interconnect using via-switch. , 2016, , . | | 4 |
| 49 | Sensor Signal Processing Using High-Level Synthesis With a Layered Architecture. IEEE Embedded Systems Letters, 2018, 10, 119-122. | 1.9 | 4 |
| 50 | A Robust Low-\$k\$/Cu Dual Damascene Interconnect (DDI) With Sidewall Protection Layer (SPL). IEEE Transactions on Device and Materials Reliability, 2011, 11, 98-105. | 2.0 | 3 |
| 51 | Impact of overshoot current on set operation of atom switch. Japanese Journal of Applied Physics, 2014, 53, 04ED07. | 1.5 | 3 |
| 52 | Novel processor architecture for onboard infrared sensors. , 2016, , . | | 3 |
| 53 | Area-efficient nonvolatile carry chain based on pass-transistor/atom-switch hybrid logic. Japanese Journal of Applied Physics, 2016, 55, 04EF01. | 1.5 | 3 |
| 54 | Atom Switch with Improved Cycle Endurance using Field Enhancement for Nonvolatile SoC. , 2018, , . | | 3 |

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| 55 | Single-Event Effects Induced on Atom Switch-based Field-Programmable Gate Array. IEEE Transactions on Nuclear Science, 2019, 66, 1355-1360. | 2.0 | 3 |
| 56 | ON-state retention of Atom Switch eNVM for IoT/AI Inference Solution. , 2020, , . | | 3 |
| 57 | Cryogenic operation of NanoBridge at 4 K for controlling qubit. Japanese Journal of Applied Physics, 2022, 61, SC1049. | 1.5 | 3 |
| 58 | Low-power embedded read-only memory using atom switch and silicon-on-thin-buried-oxide transistor. Applied Physics Express, 2015, 8, 045201. | 2.4 | 2 |
| 59 | Cu Atom Switch With Steep Time-to-ON-State Versus Switching Voltage Using Cu Ionization Control. IEEE Transactions on Electron Devices, 2015, 62, 2966-2971. | 3.0 | 2 |
| 60 | Programmable SpaceWire interface with atom switch: Components, short paper. , 2016, , . | | 2 |
| 61 | Architecture optimization of nanobridge-based field-programmable gate array and its evaluation. Japanese Journal of Applied Physics, 2017, 56, 04CF03. | 1.5 | 2 |
| 62 | Improved Resistive Switching Characteristics of NiO Resistance Random-Access Memory Using Post-Plasma-Oxidation Process. Japanese Journal of Applied Physics, 2011, 50, 04DD13. | 1.5 | 2 |
| 63 | Via-Switch FPGA: 65-nm CMOS Implementation and Evaluation. IEEE Journal of Solid-State Circuits, 2022, 57, 2250-2262. | 5.4 | 2 |
| 64 | Logic compatible process technology for embedded atom switches in CMOS. Japanese Journal of Applied Physics, 2015, 54, 05ED05. | 1.5 | 1 |
| 65 | An atom-switch-based field-programmable gate array with optimized driving capability buffer. Japanese Journal of Applied Physics, 2019, 58, SBBB04. | 1.5 | 1 |
| 66 | Mechanism of OFF-state lifetime improvement in complementary atom switch. Japanese Journal of Applied Physics, 2015, 54, 04DD08. | 1.5 | 1 |
| 67 | Via-switch FPGA with transistor-free programmability enabling energy-efficient near-memory parallel computation. Japanese Journal of Applied Physics, 0, , . | 1.5 | 1 |
| 68 | Low Temperature Boron Activation in Amorphous Germanium for Three Dimensional Integrated Circuits (3D-ICs) using Ni-induced Crystallization. ECS Transactions, 2009, 16, 909-916. | 0.5 | 0 |
| 69 | Effects of Low-\$k\$ Stack Structure on Performance of Complementary Metal Oxide Semiconductor Devices and Chip Package Interaction Failure. Japanese Journal of Applied Physics, 2012, 51, 096504. | 1.5 | 0 |
| 70 | Effects of Low- <i>k</i> Stack Structure on Performance of Complementary Metal Oxide Semiconductor Devices and Chip Package Interaction Failure. Japanese Journal of Applied Physics, 2012, 51, 096504. | 1.5 | 0 |
| 71 | Publisher's Note: "Mechanism of OFF-state lifetime improvement in complementary atom switch― Japanese Journal of Applied Physics, 2015, 54, 059201. | 1.5 | 0 |
| 72 | Applications of Reconfigurable Processors as Embedded Automatons in the IoT Sensor Networks in Space. , 2019, , 735-750. | | 0 |

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|----|--|----|-----------|
| 73 | NanoBridge Technology for Novoaltile FPGA and Memory Applications : (Invited). , 2022, , . | | 0 |
| 74 | NanoBridge Technology for Embedded Novolatile Memory Application. , 2022, , . | | 0 |