## Shoji Ikeda

List of Publications by Year in descending order

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76326 30087 11,327 129 40 103 citations h-index g-index papers 129 129 129 5412 docs citations times ranked citing authors all docs

| #  | Article                                                                                                                                                                                                                  | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Perpendicular Magnetic Tunnel Junctions With Four Anti-Ferromagnetically Coupled Co/Pt Pinning Layers. IEEE Transactions on Magnetics, 2022, 58, 1-5.                                                                    | 2.1 | 3         |
| 2  | Effect of Magnetic Coupling Between Two CoFeB Layers on Thermal Stability in Perpendicular Magnetic Tunnel Junctions With MgO/CoFeB/Insertion Layer/CoFeB/MgO Free Layer. IEEE Transactions on Magnetics, 2022, 58, 1-6. | 2.1 | 2         |
| 3  | Influence of Iridium Sputtering Conditions on the Magnetic Properties of Co/Pt-Based<br>Iridium-Synthetic Antiferromagnetic Coupling Reference Layer. IEEE Transactions on Magnetics, 2022,<br>58, 1-5.                  | 2.1 | 1         |
| 4  | Enhancement of current to spin-current conversion and spin torque efficiencies in a synthetic antiferromagnetic layer based on a Pt/Ir/Pt spacer layer. Physical Review B, 2022, 105, .                                  | 3.2 | 11        |
| 5  | Structural Analysis of CoFeB/MgO-Based Perpendicular MTJs With Junction Size of 20 nm by STEM Tomography. IEEE Transactions on Magnetics, 2021, 57, 1-7.                                                                 | 2.1 | O         |
| 6  | 40 nm 1T–1MTJ 128 Mb STT-MRAM With Novel Averaged Reference Voltage Generator Based on Detailed Analysis of Scaled-Down Memory Cell Array Design. IEEE Transactions on Magnetics, 2021, 57, 1-9.                         | 2.1 | 3         |
| 7  | Dual-Port SOT-MRAM Achieving 90-MHz Read and 60-MHz Write Operations Under Field-Assistance-Free Condition. IEEE Journal of Solid-State Circuits, 2021, 56, 1116-1128.                                                   | 5.4 | 24        |
| 8  | Enhancement of magnetic coupling and magnetic anisotropy in MTJs with multiple CoFeB/MgO interfaces for high thermal stability. AIP Advances, 2021, 11, .                                                                | 1.3 | 6         |
| 9  | First Demonstration of 25-nm Quad Interface p-MTJ Device With Low Resistance-Area Product MgO and Ten Years Retention for High Reliable STT-MRAM. IEEE Transactions on Electron Devices, 2021, 68, 2680-2685.            | 3.0 | 8         |
| 10 | Synthetic antiferromagnetic layer based on Pt/Ru/Pt spacer layer with 1.05 nm interlayer exchange oscillation period for spin–orbit torque devices. Applied Physics Letters, 2021, 119, .                                | 3.3 | 11        |
| 11 | Scalability of Quad Interface p-MTJ for 1X nm STT-MRAM With 10-ns Low Power Write Operation, 10 Years Retention and Endurance > $10\hat{A}^1\hat{A}^1$ . IEEE Transactions on Electron Devices, 2020, 67, 5368-5373.     | 3.0 | 26        |
| 12 | Recent Progresses in STT-MRAM and SOT-MRAM for Next Generation MRAM. , 2020, , .                                                                                                                                         |     | 18        |
| 13 | Influence of Hard Mask Materials on the Magnetic Properties of Perpendicular MTJs With Double CoFeB/MgO Interface. IEEE Transactions on Magnetics, 2020, 56, 1-4.                                                        | 2.1 | 6         |
| 14 | Micromagnetic simulation of the temperature dependence of the switching energy barrier using string method assuming sidewall damages in perpendicular magnetized magnetic tunnel junctions. AIP Advances, 2020, 10, .    | 1.3 | 10        |
| 15 | Novel Quad-Interface MTJ Technology and its First Demonstration With High Thermal Stability Factor and Switching Efficiency for STT-MRAM Beyond 2X nm. IEEE Transactions on Electron Devices, 2020, 67, 995-1000.        | 3.0 | 19        |
| 16 | Magnetic properties of Co film in Pt/Co/Cr2O3/Pt structure. AIP Advances, 2020, 10, .                                                                                                                                    | 1.3 | 6         |
| 17 | A 47.14-\$muext{W}\$ 200-MHz MOS/MTJ-Hybrid Nonvolatile Microcontroller Unit Embedding STT-MRAM and FPGA for IoT Applications. IEEE Journal of Solid-State Circuits, 2019, 54, 2991-3004.                                | 5.4 | 39        |
| 18 | Novel Quad interface MTJ technology and its first demonstration with high thermal stability and switching efficiency for STT-MRAM beyond 2Xnm. , 2019, , .                                                               |     | 22        |

| #  | Article                                                                                                                                                                                                                                    | lF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Effect of surface modification treatment of buffer layer on thermal tolerance of synthetic ferrimagnetic reference layer in perpendicular-anisotropy magnetic tunnel junctions. Journal of Applied Physics, 2019, 126, .                   | 2.5 | 7         |
| 20 | Change in chemical bonding state by thermal treatment in MgO-based magnetic tunnel junction observed by angle-resolved hard X-ray photoelectron spectroscopy. Journal of Applied Physics, 2019, 125, .                                     | 2.5 | 6         |
| 21 | Insertion Layer Thickness Dependence of Magnetic and Electrical Properties for Double-CoFeB/MgO-Interface Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2019, 55, 1-4.                                                        | 2.1 | 12        |
| 22 | A novel memory test system with an electromagnet for STT-MRAM testing. , 2019, , .                                                                                                                                                         |     | 1         |
| 23 | Effect of capping layer material on thermal tolerance of magnetic tunnel junctions with MgO/CoFeB-based free layer/MgO/capping layers. AIP Advances, 2019, 9, .                                                                            | 1.3 | 3         |
| 24 | Novel Method of Evaluating Accurate Thermal Stability for MTJs Using Thermal Disturbance and its Demonstration for Single-/Double-Interface p-MTJ. IEEE Transactions on Magnetics, 2018, 54, 1-5.                                          | 2.1 | 7         |
| 25 | 14ns write speed 128Mb density Embedded STT-MRAM with endurance>10 <sup>10</sup> and 10yrs retention@85°C using novel low damage MTJ integration process. , 2018, , .                                                                      |     | 33        |
| 26 | High thermal tolerance synthetic ferrimagnetic reference layer with modified buffer layer by ion irradiation for perpendicular anisotropy magnetic tunnel junctions , 2018, , .                                                            |     | 0         |
| 27 | STEM tomography study on structural features induced by MTJ processing. Applied Physics A: Materials Science and Processing, 2018, 124, 1.                                                                                                 | 2.3 | 4         |
| 28 | Origin of variation of shift field via annealing at $400 \hat{A}^{\circ} \text{C}$ in a perpendicular-anisotropy magnetic tunnel junction with [Co/Pt]-multilayers based synthetic ferrimagnetic reference layer. AIP Advances, 2017, 7, . | 1.3 | 9         |
| 29 | Atomic structure and electronic properties of MgO grain boundaries in tunnelling magnetoresistive devices. Scientific Reports, 2017, 7, 45594.                                                                                             | 3.3 | 35        |
| 30 | Impact of Tungsten Sputtering Condition on Magnetic and Transport Properties of Double-MgO Magnetic Tunneling Junction With CoFeB/W/CoFeB Free Layer. IEEE Transactions on Magnetics, 2017, 53, 1-4.                                       | 2.1 | 17        |
| 31 | Annealing temperature dependence of magnetic properties of CoFeB/MgO stacks on different buffer layers. Japanese Journal of Applied Physics, 2017, 56, 0802B2.                                                                             | 1.5 | 14        |
| 32 | Magnetic tunnel junctions with perpendicular easy axis at junction diameter of less than 20 nm. Japanese Journal of Applied Physics, 2017, 56, 0802A6.                                                                                     | 1.5 | 17        |
| 33 | Fast neutron tolerance of the perpendicular-anisotropy CoFeB–MgO magnetic tunnel junctions with junction diameters between 46 and 64 nm. Japanese Journal of Applied Physics, 2017, 56, 0802B3.                                            | 1.5 | 4         |
| 34 | Soft errors in 10-nm-scale magnetic tunnel junctions exposed to high-energy heavy-ion radiation. Japanese Journal of Applied Physics, 2017, 56, 0802B4.                                                                                    | 1.5 | 17        |
| 35 | An Overview of Nonvolatile Emerging Memoriesâ€" Spintronics for Working Memories. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2016, 6, 109-119.                                                                  | 3.6 | 121       |
| 36 | Free- and reference-layer magnetization modes versus in-plane magnetic field in a magnetic tunnel junction with perpendicular magnetic easy axis. Physical Review B, 2016, 94, .                                                           | 3.2 | 4         |

| #  | Article                                                                                                                                                                                                                                 | IF   | Citations |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Standby-Power-Free Integrated Circuits Using MTJ-Based VLSI Computing. Proceedings of the IEEE, 2016, 104, 1844-1863.                                                                                                                   | 21.3 | 102       |
| 38 | Atomic-Scale Structure and Local Chemistry of CoFeB–MgO Magnetic Tunnel Junctions. Nano Letters, 2016, 16, 1530-1536.                                                                                                                   | 9.1  | 85        |
| 39 | Improvement of Thermal Tolerance of CoFeB–MgO Perpendicular-Anisotropy Magnetic Tunnel Junctions by Controlling Boron Composition. IEEE Transactions on Magnetics, 2016, 52, 1-4.                                                       | 2.1  | 17        |
| 40 | Dependence of magnetic properties of MgO/CoFeB/Ta stacks on CoFeB and Ta thicknesses. Japanese Journal of Applied Physics, 2015, 54, 04DM04.                                                                                            | 1.5  | 9         |
| 41 | Power-gated 32 bit microprocessor with a power controller circuit activated by deep-sleep-mode instruction achieving ultra-low power operation. Japanese Journal of Applied Physics, 2015, 54, 04DE08.                                  | 1.5  | 8         |
| 42 | Diffusion behaviors observed on the surface of CoFeB film after the natural oxidation and the annealing. , $2015,  ,  .$                                                                                                                |      | 0         |
| 43 | 1T1MTJ STT-MRAM Cell Array Design with an Adaptive Reference Voltage Generator for Improving Device<br>Variation Tolerance. , 2015, , .                                                                                                 |      | 13        |
| 44 | In-plane anisotropy of a nano-scaled magnetic tunnel junction with perpendicular magnetic easy axis. Japanese Journal of Applied Physics, 2015, 54, 04DM03.                                                                             | 1.5  | 5         |
| 45 | Evidence of a reduction reaction of oxidized iron/cobalt by boron atoms diffused toward naturally oxidized surface of CoFeB layer during annealing. Applied Physics Letters, 2015, 106, 142407.                                         | 3.3  | 11        |
| 46 | Fabrication of a 3000-6-input-LUTs embedded and block-level power-gated nonvolatile FPGA chip using p-MTJ-based logic-in-memory structure. , 2015, , .                                                                                  |      | 6         |
| 47 | Challenge of MTJ-based nonvolatile logic-in-memory architecture for ultra low-power and highly dependable VLSI computing. , 2015, , .                                                                                                   |      | 2         |
| 48 | Nonvolatile Logic-in-Memory LSI Using Cycle-Based Power Gating and its Application to Motion-Vector Prediction. IEEE Journal of Solid-State Circuits, 2015, 50, 476-489.                                                                | 5.4  | 53        |
| 49 | Process-induced damage and its recovery for a CoFeB–MgO magnetic tunnel junction with perpendicular magnetic easy axis. Japanese Journal of Applied Physics, 2014, 53, 103001.                                                          | 1.5  | 17        |
| 50 | Distribution of critical current density for magnetic domain wall motion. Journal of Applied Physics, 2014, 115, 17D508.                                                                                                                | 2.5  | 3         |
| 51 | Wide operational margin capability of $1\mathrm{kbit}$ spin-transfer-torque memory array chip with $1\text{-PMOS}$ and $1\text{-bottom-pin-magnetic-tunnel-junction}$ type cell. Japanese Journal of Applied Physics, 2014, 53, 04ED13. | 1.5  | 7         |
| 52 | Perpendicular-anisotropy CoFeB-MgO based magnetic tunnel junctions scaling down to 1X nm., 2014, , .                                                                                                                                    |      | 20        |
| 53 | Properties of magnetic tunnel junctions with a MgO/CoFeB/Ta/CoFeB/MgO recording structure down to junction diameter of 11 nm. Applied Physics Letters, 2014, 105, .                                                                     | 3.3  | 240       |
| 54 | Domain Wall Motion Device for Nonvolatile Memory and Logic â€" Size Dependence of Device Properties. IEEE Transactions on Magnetics, 2014, 50, 1-6.                                                                                     | 2.1  | 21        |

| #  | Article                                                                                                                                                                                                                    | IF  | Citations |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Power reduction by power gating in differential pair type spin-transfer-torque magnetic random access memories for low-power nonvolatile cache memories. Japanese Journal of Applied Physics, 2014, 53, 04ED04.            | 1.5 | 3         |
| 56 | Co/Pt multilayer based reference layers in magnetic tunnel junctions for nonvolatile spintronics VLSIs. Japanese Journal of Applied Physics, 2014, 53, 04EM02.                                                             | 1.5 | 33        |
| 57 | A two-transistor bootstrap type selective device for spin-transfer-torque magnetic tunnel junctions.<br>Japanese Journal of Applied Physics, 2014, 53, 04ED03.                                                             | 1.5 | 1         |
| 58 | Plasma process induced physical damages on multilayered magnetic films for magnetic domain wall motion. Japanese Journal of Applied Physics, 2014, 53, 03DF03.                                                             | 1.5 | 7         |
| 59 | Magnetization reversal induced by in-plane current in Ta/CoFeB/MgO structures with perpendicular magnetic easy axis. Journal of Applied Physics, 2014, 115, 17C714.                                                        | 2.5 | 30        |
| 60 | Influence of Heavy Ion Irradiation on Perpendicular-Anisotropy CoFeB-MgO Magnetic Tunnel Junctions. IEEE Transactions on Nuclear Science, 2014, 61, 1710-1716.                                                             | 2.0 | 35        |
| 61 | Magnetization switching in a CoFeB/MgO magnetic tunnel junction by combining spin-transfer torque and electric field-effect. Applied Physics Letters, 2014, 104, .                                                         | 3.3 | 87        |
| 62 | Electric Field-Induced Magnetization Switching in CoFeB-MgOâ€"Static Magnetic Field Angle Dependence. IEEE Transactions on Magnetics, 2014, 50, 1-3.                                                                       | 2.1 | 2         |
| 63 | Trend of tunnel magnetoresistance and variation in threshold voltage for keeping data load robustness of metal–oxide–semiconductor/magnetic tunnel junction hybrid latches. Journal of Applied Physics, 2014, 115, 17C728. | 2.5 | 12        |
| 64 | Co/Pt multilayer-based magnetic tunnel junctions with a CoFeB/Ta insertion layer. Journal of Applied Physics, 2014, 115, 17C719.                                                                                           | 2.5 | 22        |
| 65 | In-plane magnetic field dependence of electric field-induced magnetization switching. Applied Physics<br>Letters, 2013, 103, .                                                                                             | 3.3 | 53        |
| 66 | Nonvolatile logic-in-memory array processor in 90nm MTJ/MOS achieving 75% leakage reduction using cycle-based power gating. , 2013, , .                                                                                    |     | 41        |
| 67 | MgO/CoFeB/Ta/CoFeB/MgO Recording Structure in Magnetic Tunnel Junctions With Perpendicular Easy Axis. IEEE Transactions on Magnetics, 2013, 49, 4437-4440.                                                                 | 2.1 | 120       |
| 68 | A 1 Mb Nonvolatile Embedded Memory Using 4T2MTJ Cell With 32 b Fine-Grained Power Gating Scheme. IEEE Journal of Solid-State Circuits, 2013, 48, 1511-1520.                                                                | 5.4 | 70        |
| 69 | Magnetotransport measurements of current induced effective fields in Ta/CoFeB/MgO. Applied Physics Letters, 2013, 103, .                                                                                                   | 3.3 | 30        |
| 70 | Enhanced interface perpendicular magnetic anisotropy in Ta   CoFeB   MgO using nitrogen doped Ta underlayers. Applied Physics Letters, 2013, 102, .                                                                        | 3.3 | 117       |
| 71 | Electrical endurance of Co/Ni wire for magnetic domain wall motion device. Applied Physics Letters, 2013, 102, 222410.                                                                                                     | 3.3 | 7         |
| 72 | Three terminal magnetic tunnel junction utilizing the spin Hall effect of iridium-doped copper. Applied Physics Letters, 2013, 102, .                                                                                      | 3.3 | 99        |

| #          | Article                                                                                                                                                                                                | IF  | CITATIONS |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| <b>7</b> 3 | Magnetic properties of MgO-[Co/Pt] multilayers with a CoFeB insertion layer. Journal of Applied Physics, 2013, 113, .                                                                                  | 2.5 | 28        |
| 74         | Comprehensive study of CoFeB-MgO magnetic tunnel junction characteristics with single- and double-interface scaling down to $1X\ nm.$ , $2013,$ ,.                                                     |     | 49        |
| 75         | 20-nm magnetic domain wall motion memory with ultralow-power operation. , 2013, , .                                                                                                                    |     | 42        |
| 76         | Influence of heavy ion irradiation on perpendicular-anisotropy CoFeB-MgO magnetic tunnel junctions. , 2013, , .                                                                                        |     | 7         |
| 77         | A 1-Mb STT-MRAM with zero-array standby power and 1.5-ns quick wake-up by 8-b fine-grained power gating. , 2013, , .                                                                                   |     | 5         |
| 78         | Dependence of Magnetic Anisotropy in $Co_{20}\Fe_{60}\B_{20}\$ Free Layers on Capping Layers in MgO-Based Magnetic Tunnel Junctions with In-Plane Easy Axis. Applied Physics Express, 2012, 5, 053002. | 2.4 | 28        |
| 79         | Time-Resolved Switching Characteristic in Magnetic Tunnel Junction with Spin Transfer Torque Write Scheme. Japanese Journal of Applied Physics, 2012, 51, 02BM02.                                      | 1.5 | 7         |
| 80         | Material parameters and thermal stability of synthetic ferrimagnet free layers in magnetic tunnel junction nanopillars. Journal of Applied Physics, 2012, 112, 053922.                                 | 2.5 | 1         |
| 81         | Transmission electron microscopy study on the effect of various capping layers on CoFeB/MgO/CoFeB pseudo spin valves annealed at different temperatures. Journal of Applied Physics, 2012, 111, .      | 2.5 | 50        |
| 82         | RECENT PROGRESS OF PERPENDICULAR ANISOTROPY MAGNETIC TUNNEL JUNCTIONS FOR NONVOLATILE VLSI. Spin, 2012, 02, 1240003.                                                                                   | 1.3 | 63        |
| 83         | Electric field-induced magnetization reversal in a perpendicular-anisotropy CoFeB-MgO magnetic tunnel junction. Applied Physics Letters, 2012, 101, .                                                  | 3.3 | 341       |
| 84         | Observation of boron diffusion in an annealed Ta/CoFeB/MgO magnetic tunnel junction with standing-wave hard x-ray photoemission. Applied Physics Letters, 2012, $101$ , .                              | 3.3 | 64        |
| 85         | Effects of boron composition on tunneling magnetoresistance ratio and microstructure of CoFeB/MgO/CoFeB pseudo-spin-valve magnetic tunnel junctions. Journal of Applied Physics, 2012, 111, 043913.    | 2.5 | 27        |
| 86         | Perpendicular-anisotropy CoFeB-MgO magnetic tunnel junctions with a MgO/CoFeB/Ta/CoFeB/MgO recording structure. Applied Physics Letters, 2012, 101, .                                                  | 3.3 | 255       |
| 87         | Domain Structure in CoFeB Thin Films With Perpendicular Magnetic Anisotropy. IEEE Magnetics Letters, 2011, 2, 3000304-3000304.                                                                         | 1.1 | 124       |
| 88         | Spin-torque switching window, thermal stability, and material parameters of MgO tunnel junctions. Applied Physics Letters, 2011, 98, 162502.                                                           | 3.3 | 18        |
| 89         | Current-induced domain wall motion in perpendicularly magnetized CoFeB nanowire. Applied Physics Letters, 2011, 98, .                                                                                  | 3.3 | 135       |
| 90         | Junction size effect on switching current and thermal stability in CoFeB/MgO perpendicular magnetic tunnel junctions. Applied Physics Letters, 2011, 99, .                                             | 3.3 | 143       |

| #   | Article                                                                                                                                                                                                                                                    | IF   | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91  | Pd Layer Thickness Dependence of Tunnel Magnetoresistance Properties in CoFeB/MgO-Based Magnetic Tunnel Junctions with Perpendicular Anisotropy CoFe/Pd Multilayers. Applied Physics Express, 2011, 4, 023002.                                             | 2.4  | 48        |
| 92  | Design and Fabrication of a One-Transistor/One-Resistor Nonvolatile Binary Content-Addressable Memory Using Perpendicular Magnetic Tunnel Junction Devices with a Fine-Grained Power-Gating Scheme. Japanese Journal of Applied Physics, 2011, 50, 063004. | 1.5  | 13        |
| 93  | Reduction of intrinsic critical current density under a magnetic field along the hard axis of a free layer in a magnetic tunnel junction. Physical Review B, 2011, 84, .                                                                                   | 3.2  | 1         |
| 94  | Current-induced effective field in perpendicularly magnetized Ta/CoFeB/MgO wire. Applied Physics Letters, $2011,98,$ .                                                                                                                                     | 3.3  | 133       |
| 95  | Origin of the collapse of tunnel magnetoresistance at high annealing temperature in CoFeB/MgO perpendicular magnetic tunnel junctions. Applied Physics Letters, 2011, 99, .                                                                                | 3.3  | 55        |
| 96  | Dependence of magnetic anisotropy on MgO thickness and buffer layer in Co20Fe60B20-MgO structure. Journal of Applied Physics, 2011, 109, .                                                                                                                 | 2.5  | 109       |
| 97  | Tunnel magnetoresistance properties and annealing stability in perpendicular anisotropy MgO-based magnetic tunnel junctions with different stack structures. Journal of Applied Physics, 2011, 109, .                                                      | 2.5  | 16        |
| 98  | Study of the DC Performance of Fabricated Magnetic Tunnel Junction Integrated on Back-End Metal Line of CMOS Circuits. IEICE Transactions on Electronics, 2010, E93-C, 608-613.                                                                            | 0.6  | 0         |
| 99  | A perpendicular-anisotropy CoFeB–MgO magnetic tunnel junction. Nature Materials, 2010, 9, 721-724.                                                                                                                                                         | 27.5 | 3,020     |
| 100 | Transient Characteristic of Fabricated Magnetic Tunnel Junction (MTJ) Programmed with CMOS Circuit. IEICE Transactions on Electronics, 2010, E93-C, 602-607.                                                                                               | 0.6  | 3         |
| 101 | Tunnel magnetoresistance properties and film structures of double MgO barrier magnetic tunnel junctions. Applied Physics Letters, 2010, 96, .                                                                                                              | 3.3  | 49        |
| 102 | CoFeB Inserted Perpendicular Magnetic Tunnel Junctions with CoFe/Pd Multilayers for High Tunnel Magnetoresistance Ratio. Japanese Journal of Applied Physics, 2010, 49, 04DM04.                                                                            | 1.5  | 11        |
| 103 | The Performance of Magnetic Tunnel Junction Integrated on the Back-End Metal Line of Complimentary Metal–Oxide–Semiconductor Circuits. Japanese Journal of Applied Physics, 2010, 49, 04DM06.                                                              | 1.5  | 0         |
| 104 | A 32-Mb SPRAM With 2T1R Memory Cell, Localized Bi-Directional Write Driver and $1' \upharpoonright 0'$ Dual-Array Equalized Reference Scheme. IEEE Journal of Solid-State Circuits, 2010, 45, 869-879.                                                     | 5.4  | 115       |
| 105 | A nondestructive analysis of the B diffusion in Ta–CoFeB–MgO–CoFeB–Ta magnetic tunnel junctions by hard x-ray photoemission. Applied Physics Letters, 2010, 96, .                                                                                          | 3.3  | 60        |
| 106 | Electric-field effects on thickness dependent magnetic anisotropy of sputtered MgO/Co40Fe40B20/Ta structures. Applied Physics Letters, 2010, 96, .                                                                                                         | 3.3  | 443       |
| 107 | Magnetic tunnel junction for nonvolatile CMOS logic. , 2010, , .                                                                                                                                                                                           |      | 66        |
| 108 | MgO barrier-perpendicular magnetic tunnel junctions with CoFe/Pd multilayers and ferromagnetic insertion layers. Applied Physics Letters, 2009, 95, .                                                                                                      | 3.3  | 130       |

| #   | Article                                                                                                                                                                                                               | IF  | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Direct measurement of current-induced fieldlike torque in magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, .                                                                                         | 2.5 | 11        |
| 110 | Perpendicular Magnetic Tunnel Junctions with CoFe/Pd Multilayer Electrodes and an MgO Barrier. IEEE Transactions on Magnetics, 2009, 45, 3476-3479.                                                                   | 2.1 | 19        |
| 111 | 2 Mb SPRAM (SPin-Transfer Torque RAM) With Bit-by-Bit Bi-Directional Current Write and Parallelizing-Direction Current Read. IEEE Journal of Solid-State Circuits, 2008, 43, 109-120.                                 | 5.4 | 212       |
| 112 | Tunnel magnetoresistance of 604% at 300K by suppression of Ta diffusion in CoFeBâ^•MgOâ^•CoFeB pseudo-spin-valves annealed at high temperature. Applied Physics Letters, 2008, 93, .                                  | 3.3 | 1,259     |
| 113 | Current-Induced Magnetization Switching in MgO Barrier Magnetic Tunnel Junctions With CoFeB-Based Synthetic Ferrimagnetic Free Layers. IEEE Transactions on Magnetics, 2008, 44, 1962-1967.                           | 2.1 | 83        |
| 114 | Electrical time-domain observation of magnetization switching induced by spin transfer in magnetic nanostructures (invited). Journal of Applied Physics, 2008, 103, 07A723.                                           | 2.5 | 9         |
| 115 | Effect of electrode composition on the tunnel magnetoresistance of pseudo-spin-valve magnetic tunnel junction with a MgO tunnel barrier. Applied Physics Letters, 2007, 90, 212507.                                   | 3.3 | 293       |
| 116 | Dependence of tunnel magnetoresistance on ferromagnetic electrode materials in MgO-barrier magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2007, 310, 1937-1939.                              | 2.3 | 18        |
| 117 | 2-Mb SPRAM design: bi-directional current write and parallelizing-direction current read based on spin-transfer torque switching. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3929-3933. | 1.8 | 2         |
| 118 | Magnetic Tunnel Junctions for Spintronic Memories and Beyond. IEEE Transactions on Electron Devices, 2007, 54, 991-1002.                                                                                              | 3.0 | 460       |
| 119 | Current-Induced Magnetization Switching in MgO Barrier Based Magnetic Tunnel Junctions with CoFeB/Ru/CoFeB Synthetic Ferrimagnetic Free Layer. Japanese Journal of Applied Physics, 2006, 45, L1057-L1060.            | 1.5 | 125       |
| 120 | Effect of high annealing temperature on giant tunnel magnetoresistance ratio of CoFeBâ^•MgOâ^•CoFeB magnetic tunnel junctions. Applied Physics Letters, 2006, 89, 232510.                                             | 3.3 | 205       |
| 121 | Fabrication and Evaluation of Magnetic Tunnel Junction with MgO Tunneling Barrier. Japanese Journal of Applied Physics, 2006, 45, 3228-3232.                                                                          | 1.5 | 1         |
| 122 | Giant tunnel magnetoresistance and high annealing stability in CoFeBâ^•MgOâ^•CoFeB magnetic tunnel junctions with synthetic pinned layer. Applied Physics Letters, 2006, 89, 042506.                                  | 3.3 | 150       |
| 123 | Current-driven magnetization reversal in exchange-biased spin-valve nanopillars. Journal of Applied Physics, 2005, 97, 114321.                                                                                        | 2.5 | 8         |
| 124 | Dependence of Tunnel Magnetoresistance in MgO Based Magnetic Tunnel Junctions on Ar Pressure during MgO Sputtering. Japanese Journal of Applied Physics, 2005, 44, L1442-L1445.                                       | 1.5 | 99        |
| 125 | Dependence of Giant Tunnel Magnetoresistance of Sputtered CoFeB/MgO/CoFeB Magnetic Tunnel Junctions on MgO Barrier Thickness and Annealing Temperature. Japanese Journal of Applied Physics, 2005, 44, L587-L589.     | 1.5 | 242       |
| 126 | Current-Driven Magnetization Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2005, 44, L1267.                                                                            | 1.5 | 182       |

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| #   | Article                                                                                                                                                | IF  | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Fabrication of a Nonvolatile Full Adder Based on Logic-in-Memory Architecture Using Magnetic Tunnel Junctions. Applied Physics Express, 0, 1, 091301.  | 2.4 | 302       |
| 128 | Standby-Power-Free Compact Ternary Content-Addressable Memory Cell Chip Using Magnetic Tunnel Junction Devices. Applied Physics Express, 0, 2, 023004. | 2.4 | 73        |
| 129 | Beyond MRAM: Nonvolatile Logic-in-Memory VLSI. , 0, , 199-230.                                                                                         |     | 1         |