# Shinji Yuasa

List of Publications by Year
in descending order

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|---|---|---|---|
| 395 papers | 19,148 citations | 20817 60 h-index | 13771 129 g-index |
| 400 all docs | 400 docs citations | 400 times ranked | 8543 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Giant room-temperature magnetoresistance in single-crystal Fe/MgO/Fe magnetic tunnel junctions. Nature Materials, 2004, 3, 868-871. | 27.5 | 2,907 |
| 2 | Neuromorphic computing with nanoscale spintronic oscillators. Nature, 2017, 547, 428-431. | 27.8 | 893 |
| 3 | 230% room-temperature magnetoresistance in CoFeBâˆ•MgOâˆ•CoFeB magnetic tunnel junctions. Applied Physics Letters, 2005, 86, 092502. | 3.3 | 861 |
| 4 | Spin-torque diode effect in magnetic tunnel junctions. Nature, 2005, 438, 339-342. | 27.8 | 771 |
| 5 | Giant tunnel magnetoresistance in magnetic tunnel junctions with a crystalline MgO(0â€‰0â€‰1) barrier. Journal Physics D: Applied Physics, 2007, 40, R337-R354. | 2.8 | 517 |
| 6 | Quantitative measurement of voltage dependence of spin-transfer torque in MgO-based magnetic tunnel junctions. Nature Physics, 2008, 4, 37-41. | 16.7 | 485 |
| 7 | Bias-driven high-power microwave emission from MgO-based tunnel magnetoresistance devices. Nature Physics, 2008, 4, 803-809. | 16.7 | 406 |
| 8 | Vowel recognition with four coupled spin-torque nano-oscillators. Nature, 2018, 563, 230-234. | 27.8 | 356 |
| 9 | Large microwave generation from current-driven magnetic vortex oscillators in magnetic tunnel junctions. Nature Communications, 2010, 1, 8. | 12.8 | 336 |
| 10 | Giant tunneling magnetoresistance up to 410% at room temperature in fully epitaxial Coâˆ•MgOâˆ•Co magnetic tunnel junctions with bcc Co(001) electrodes. Applied Physics Letters, 2006, 89, 042505. | 3.3 | 329 |
| 11 | High Tunnel Magnetoresistance at Room Temperature in Fully Epitaxial Fe/MgO/Fe Tunnel Junctions due to Coherent Spin-Polarized Tunneling. Japanese Journal of Applied Physics, 2004, 43, L588-L590. | 1.5 | 269 |
| 12 | Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. Applied Physics Letters, 2010, 97, . | 3.3 | 255 |
| 13 | Spin-Polarized Resonant Tunneling in Magnetic Tunnel Junctions. Science, 2002, 297, 234-237. | 12.6 | 238 |
| 14 | Highly sensitive nanoscale spin-torque diode. Nature Materials, 2014, 13, 50-56. | 27.5 | 228 |
| 15 | Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metalÂlayer. Nature Physics, 2012, 8, 491-496. | 16.7 | 223 |
| 16 | Thermal spin current from a ferromagnet to silicon by Seebeck spin tunnelling. Nature, 2011, 475, 82-85. | 27.8 | 218 |
| 17 | Giant tunneling magnetoresistance effect in low-resistance CoFeBâˆ•MgO(001)âˆ•CoFeB magnetic tunnel junctions for read-head applications. Applied Physics Letters, 2005, 87, 072503. | 3.3 | 196 |
| 18 | A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. Scientific Reports, 2016, 6, 31510. | 3.3 | 186 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Characterization of growth and crystallization processes in CoFeBâˆ•MgOâˆ•CoFeB magnetic tunnel junction structure by reflective high-energy electron diffraction. Applied Physics Letters, 2005, 87, 242503. | 3.3 | 174 |
| 20 | Spin dice: A scalable truly random number generator based on spintronics. Applied Physics Express, 2014, 7, 083001. | 2.4 | 174 |
| 21 | Lower-current and fast switching of a perpendicular TMR for high speed and high density spin-transfer-torque MRAM. , 2008, , . | | 172 |
| 22 | High efficient spin transfer torque writing on perpendicular magnetic tunnel junctions for high density MRAMs. Current Applied Physics, 2010, 10, e87-e89. | 2.4 | 168 |
| 23 | Influence of perpendicular magnetic anisotropy on spin-transfer switching current in CoFeBâˆ•MgOâˆ•CoFeB magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, . | 2.5 | 164 |
| 24 | Vertical-current-induced domain-wall motion in MgO-based magnetic tunnel junctions with low current densities. Nature Physics, 2011, 7, 626-630. | 16.7 | 156 |
| 25 | Evaluation of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2005, 44, L1237-L1240. | 1.5 | 154 |
| 26 | Spin-Torque Oscillator Based on Magnetic Tunnel Junction with a Perpendicularly Magnetized Free Layer and In-Plane Magnetized Polarizer. Applied Physics Express, 2013, 6, 103003. | 2.4 | 144 |
| 27 | Large Voltage-Induced Changes in the Perpendicular Magnetic Anisotropy of an MgO-Based Tunnel Junction with an Ultrathin Fe Layer. Physical Review Applied, 2016, 5, . | 3.8 | 141 |
| 28 | Neural-like computing with populations of superparamagnetic basis functions. Nature Communications, 2018, 9, 1533. | 12.8 | 139 |
| 29 | Voltage controlled interfacial magnetism through platinum orbits. Nature Communications, 2017, 8, 15848. | 12.8 | 128 |
| 30 | Interlayer exchange coupling in Feâˆ•MgOâˆ•Fe magnetic tunnel junctions. Applied Physics Letters, 2006, 89, 112503. | 3.3 | 123 |
| 31 | Direct Determination of Interfacial Magnetic Moments with a Magnetic Phase Transition in Co Nanoclusters on Au(111). Physical Review Letters, 2001, 87, 257201. | 7.8 | 120 |
| 32 | Origin of the Tunnel Anisotropic Magnetoresistance inGa1âˆ’xMnxAs/ZnSe/Ga1âˆ’xMnxAsMagnetic Tunnel Junctions of II-VI/III-V Heterostructures. Physical Review Letters, 2005, 95, 086604. | 7.8 | 114 |
| 33 | Ultralow resistance-area product of 0.4Î©(Î¼m)2 and high magnetoresistance above 50% in CoFeBâˆ•MgOâˆ•CoFeB magnetic tunnel junctions. Applied Physics Letters, 2006, 89, 162507. | 3.3 | 109 |
| 34 | Spin-transfer torque induced by the spin anomalous Hall effect. Nature Electronics, 2018, 1, 120-123. | 26.0 | 108 |
| 35 | Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. Physical Review Applied, 2017, 8, . | 3.8 | 106 |
| 36 | Physical reservoir computing based on spin torque oscillator with forced synchronization. Applied Physics Letters, 2019, 114, . | 3.3 | 106 |

| # | Article | IF | Citations |
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| 37 | Spin-transfer torque magnetoresistive random-access memory technologies for normally off computing (invited). Journal of Applied Physics, 2014, 115, . | 2.5 | 98 |
| 38 | Recent Progress in the Voltage-Controlled Magnetic Anisotropy Effect and the Challenges Faced in Developing Voltage-Torque MRAM. Micromachines, 2019, 10, 327. | 2.9 | 96 |
| 39 | Magnetic tunnel junctions with single-crystal electrodes: A crystal anisotropy of tunnel magneto-resistance. Europhysics Letters, 2000, 52, 344-350. | 2.0 | 92 |
| 40 | Evaluation of write error rate for voltage-driven dynamic magnetization switching in magnetic tunnel junctions with perpendicular magnetization. Applied Physics Express, 2016, 9, 013001. | 2.4 | 87 |
| 41 | Enhancement of perpendicular magnetic anisotropy in FeB free layers using a thin MgO cap layer. Journal of Applied Physics, 2012, 111, . | 2.5 | 85 |
| 42 | Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. Nature Communications, 2017, 8, 15825. | 12.8 | 85 |
| 43 | Highly efficient voltage control of spin and enhanced interfacial perpendicular magnetic anisotropy in iridium-doped Fe/MgO magnetic tunnel junctions. NPG Asia Materials, 2017, 9, e451-e451. | 7.9 | 84 |
| 44 | Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. Physical Review B, 2015, 91, . | 3.2 | 83 |
| 45 | Brownian motion of skyrmion bubbles and its control by voltage applications. Applied Physics Letters, 2019, 114, . | 3.3 | 81 |
| 46 | Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. Applied Physics Letters, 2019, 114, . | 3.3 | 81 |
| 47 | High Magnetoresistance Ratio and Low Resistanceâ€“Area Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. Applied Physics Express, 2010, 3, 053003. | 2.4 | 80 |
| 48 | Pulse voltage-induced dynamic magnetization switching in magnetic tunneling junctions with high resistance-area product. Applied Physics Letters, 2012, 101, . | 3.3 | 77 |
| 49 | Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. Nature Nanotechnology, 2016, 11, 360-364. | 31.5 | 75 |
| 50 | Phase locking of vortex based spin transfer oscillators to a microwave current. Applied Physics Letters, 2011, 98, . | 3.3 | 74 |
| 51 | Response to noise of a vortex based spin transfer nano-oscillator. Physical Review B, 2014, 89, . | 3.2 | 74 |
| 52 | Giant tunneling magnetoresistance in fully epitaxial body-centered-cubic Coâˆ•MgOâˆ•Fe magnetic tunnel junctions. Applied Physics Letters, 2005, 87, 222508. | 3.3 | 73 |
| 53 | Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. Applied Physics Express, 2015, 8, 053003. | 2.4 | 73 |
| 54 | Large Emission Power over 2 ÂµW with HighQFactor Obtained from Nanocontact Magnetic-Tunnel-Junction-Based Spin Torque Oscillator. Applied Physics Express, 2013, 6, 113005. | 2.4 | 72 |

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|---|---|---|---|
| 55 | Giant Tunneling Magnetoresistance in MgO-Based Magnetic Tunnel Junctions. Journal of the Physical Society of Japan, 2008, 77, 031001. | 1.6 | 69 |
| 56 | Electrical creation of spin accumulation in -type germanium. Solid State Communications, 2011, 151, 1159-1161. | 1.9 | 68 |
| 57 | Ultralow-Voltage Spin-Transfer Switching in Perpendicularly Magnetized Magnetic Tunnel Junctions with Synthetic Antiferromagnetic Reference Layer. Applied Physics Express, 2013, 6, 113006. | 2.4 | 67 |
| 58 | Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. Applied Physics Letters, 2017, 110, . | 3.3 | 65 |
| 59 | Spin-dependent tunneling spectroscopy in single-crystal Feâ^•MgOâ^•Fe tunnel junctions. Applied Physics Letters, 2005, 87, 142502. | 3.3 | 64 |
| 60 | Rectification of radio frequency current in ferromagnetic nanowire. Applied Physics Letters, 2007, 90, 182507. | 3.3 | 64 |
| 61 | Tunnel Magnetoresistance above 170% and Resistanceâ€“Area Product of 1 Î© (Âµm)<sup>2</sup>Attained byIn situAnnealing of Ultra-Thin MgO Tunnel Barrier. Applied Physics Express, 2011, 4, 033002. | 2.4 | 64 |
| 62 | Control of magnetic properties of epitaxial Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mml: | 3.2 | 60 |
| 63 | Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. Applied Physics Letters, 2017, 111, . | 3.3 | 60 |
| 64 | Magneto-Volume and Tetragonal Elongation Effects on Magnetic Phase Transitions of Body-Centered Tetragonal FeRh1-xPtx. Journal of the Physical Society of Japan, 1994, 63, 3129-3144. | 1.6 | 58 |
| 65 | High emission power and Q factor in spin torque vortex oscillator consisting of FeB free layer. Applied Physics Express, 2014, 7, 063009. | 2.4 | 58 |
| 66 | Magnetization-dependent loss in an (Al,Ga)As optical waveguide with an embedded Fe micromagnet. Optics Letters, 2010, 35, 931. | 3.3 | 57 |
| 67 | Large Diode Sensitivity of CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 2010, 3, 073001. | 2.4 | 55 |
| 68 | Oscillatory Magneto-Optical Effect in a Au (001) Film Deposited on Fe: Experimental Confirmation of a Spin-Polarized Quantum Size Effect. Physical Review Letters, 1998, 80, 5200-5203. | 7.8 | 54 |
| 69 | Origin of the spectral linewidth in nonlinear spin-transfer oscillators based on MgO tunnel junctions. Physical Review B, 2009, 80, . | 3.2 | 54 |
| 70 | Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. Applied Physics Express, 2015, 8, 083003. | 2.4 | 53 |
| 71 | Enhancement in the interfacial perpendicular magnetic anisotropy and the voltage-controlled magnetic anisotropy by heavy metal doping at the Fe/MgO interface. APL Materials, 2018, 6, . | 5.1 | 53 |
| 72 | X-ray Absorption and X-ray Magnetic Circular Dichroism Studies of a Monatomic Fe(001) Layer Facing a Single-Crystalline MgO(001) Tunnel Barrier. Japanese Journal of Applied Physics, 2005, 44, L9-L11. | 1.5 | 52 |

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|---|---|---|---|
| 73 | Voltage-Induced Magnetic Anisotropy Changes in an Ultrathin FeB Layer Sandwiched between Two MgO Layers. Applied Physics Express, 2013, 6, 073005. | 2.4 | 52 |
| 74 | High Q factor over 3000 due to out-of-plane precession in nano-contact spin-torque oscillator based on magnetic tunnel junctions. Applied Physics Express, 2014, 7, 023003. | 2.4 | 52 |
| 75 | Microwave emission power exceeding 10â€‰Î¼W in spin torque vortex oscillator. Applied Physics Letters, 2016, 109, . | 3.3 | 51 |
| 76 | Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. Scientific Reports, 2016, 5, 18134. | 3.3 | 51 |
| 77 | Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. Physical Review Letters, 2015, 115, 017201. | 7.8 | 50 |
| 78 | Effect of MgO Cap Layer on Gilbert Damping of FeB Electrode Layer in MgO-Based Magnetic Tunnel Junctions. Applied Physics Express, 2013, 6, 073002. | 2.4 | 49 |
| 79 | Scaling up electrically synchronized spin torque oscillator networks. Scientific Reports, 2018, 8, 13475. | 3.3 | 49 |
| 80 | Materials for spin-transfer-torque magnetoresistive random-access memory. MRS Bulletin, 2018, 43, 352-357. | 3.5 | 49 |
| 81 | Noise-Enhanced Synchronization of Stochastic Magnetic Oscillators. Physical Review Applied, 2014, 2, . | 3.8 | 48 |
| 82 | Role of non-linear data processing on speech recognition task in the framework of reservoir computing. Scientific Reports, 2020, 10, 328. | 3.3 | 48 |
| 83 | Injection and detection of spin in a semiconductor by tunneling via interface states. Physical Review B, 2012, 85, . | 3.2 | 47 |
| 84 | Giant Spin Accumulation in Silicon Nonlocal Spin-Transport Devices. Physical Review Applied, 2017, 8, . | 3.8 | 47 |
| 85 | Perpendicular magnetic anisotropy and its electric-field-induced change at metal-dielectric interfaces. Journal Physics D: Applied Physics, 2019, 52, 063001. | 2.8 | 47 |
| 86 | Spin-Dependent Tunneling in Magnetic Tunnel Junctions with a Layered Antiferromagnetic Cr(001) Spacer: Role of Band Structure and Interface Scattering. Physical Review Letters, 2005, 95, 086602. | 7.8 | 46 |
| 87 | Enhancement of perpendicular magnetic anisotropy and its electric field-induced change through interface engineering in Cr/Fe/MgO. Scientific Reports, 2017, 7, 5993. | 3.3 | 46 |
| 88 | Temporal Pattern Recognition with Delayed-Feedback Spin-Torque Nano-Oscillators. Physical Review Applied, 2019, 12, . | 3.8 | 45 |
| 89 | Effect of Ta getter on the quality of MgO tunnel barrier in the polycrystalline CoFeBâˆ•MgOâˆ•CoFeB magnetic tunnel junction. Applied Physics Letters, 2007, 90, 012505. | 3.3 | 44 |
| 90 | Dependence of spin-transfer switching current on free layer thickness in Coâ€“Feâ€“Bâˆ•MgOâˆ•Coâ€“Feâ€“B magnetic tunnel junctions. Applied Physics Letters, 2006, 89, 032505. | 3.3 | 43 |

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|---|---|---|---|
| 91 | Oscillation of giant tunneling magnetoresistance with respect to tunneling barrier thickness in fully epitaxial Feâˆ•MgOâˆ•Fe magnetic tunnel junctions. Applied Physics Letters, 2007, 90, . | 3.3 | 43 |
| 92 | Large spin accumulation voltages in epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mi mathvariant="normal">G</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>contacts | 3.2 | 43 |
| 93 | Anomalous scaling of spin accumulation in ferromagnetic tunnel devices with silicon and germanium. Physical Review B, 2014, 89, . | 3.2 | 43 |
| 94 | Thermal stability and spin-transfer switchings in MgO-based magnetic tunnel junctions with ferromagnetically and antiferromagnetically coupled synthetic free layers. Applied Physics Letters, 2009, 95, . | 3.3 | 42 |
| 95 | Future prospects of MRAM technologies. , 2013, , . | | 42 |
| 96 | Voltage tuning of thermal spin current in ferromagnetic tunnel contacts to semiconductors. Nature Materials, 2014, 13, 360-366. | 27.5 | 40 |
| 97 | Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. Scientific Reports, 2016, 6, 26849. | 3.3 | 40 |
| 98 | Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. APL Materials, 2020, 8, . | 5.1 | 40 |
| 99 | High domain wall velocities via spin transfer torque using vertical current injection. Scientific Reports, 2013, 3, 1829. | 3.3 | 39 |
| 100 | Thermal spin current and magnetothermopower by Seebeck spin tunneling. Physical Review B, 2012, 85, . | 3.2 | 37 |
| 101 | Kerr microscopy observations of magnetization process in microfabricated ferromagnetic wires. Journal of Applied Physics, 2000, 87, 5618-5620. | 2.5 | 36 |
| 102 | Tunneling spectra of sputter-deposited CoFeB/MgO/CoFeB magnetic tunnel junctions showing giant tunneling magnetoresistance effect. Solid State Communications, 2005, 136, 611-615. | 1.9 | 36 |
| 103 | Spin-transfer-torque-induced rf oscillations in CoFeB/MgO/CoFeB magnetic tunnel junctions under a perpendicular magnetic field. Physical Review B, 2010, 81, . | 3.2 | 36 |
| 104 | Improvement of write error rate in voltage-driven magnetization switching. Journal Physics D: Applied Physics, 2019, 52, 164001. | 2.8 | 36 |
| 105 | Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. Applied Physics Letters, 2014, 105, . | 3.3 | 35 |
| 106 | Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. Japanese Journal of Applied Physics, 2018, 57, 120307. | 1.5 | 35 |
| 107 | Magnetization switching by spin-polarized current in low-resistance magnetic tunnel junction with MgO [001] barrier. IEEE Transactions on Magnetics, 2005, 41, 2633-2635. | 2.1 | 34 |
| 108 | Enhancement of magneto-optical Kerr effect by surface plasmons in trilayer structure consisting of double-layer dielectrics and ferromagnetic metal. Optics Express, 2015, 23, 11537. | 3.4 | 34 |

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| 109 | First-Order Magnetic Phase Transitions Observed in bct FeRhâ€“Pt, Pd Systems. Japanese Journal of Applied Physics, 1993, 32, 232. | 1.5 | 32 |
| 110 | Microfabrication of Magnetic Tunnel Junctions Using CH$_{3}$OH Etching. IEEE Transactions on Magnetics, 2007, 43, 2776-2778. | 2.1 | 32 |
| 111 | Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. Physical Review B, 2009, 80, . | 3.2 | 32 |
| 112 | Bias dependences of in-plane and out-of-plane spin-transfer torques in symmetric MgO-based magnetic tunnel junctions. Physical Review B, 2010, 81, . | 3.2 | 32 |
| 113 | Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. Scientific Reports, 2016, 6, 30535. | 3.3 | 32 |
| 114 | Write-Error Reduction of Voltage-Torque-Driven Magnetization Switching by aÂControlled Voltage Pulse. Physical Review Applied, 2019, 11, . | 3.8 | 32 |
| 115 | Transparent magnetic fluid: preparation of YIG ultrafine particles. Journal of Magnetism and Magnetic Materials, 1993, 122, 6-9. | 2.3 | 31 |
| 116 | Quantum-well effect in magnetic tunnel junctions with ultrathin single-crystal Fe(100) electrodes. Applied Physics Letters, 2001, 79, 4381-4383. | 3.3 | 31 |
| 117 | Spin-dependent tunneling in epitaxial Fe/Cr/MgO/Fe magnetic tunnel junctions with an ultrathin Cr(001) spacer layer. Physical Review B, 2009, 79, . | 3.2 | 31 |
| 118 | Coherent microwave generation by spintronic feedback oscillator. Scientific Reports, 2016, 6, 30747. | 3.3 | 31 |
| 119 | Single-Shot Measurements of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 0, 1, 061303. | 2.4 | 29 |
| 120 | Spin Accumulation and Spin Lifetime in p-Type Germanium at Room Temperature. Applied Physics Express, 2012, 5, 053004. | 2.4 | 29 |
| 121 | Optical Isolator Utilizing Surface Plasmons. Materials, 2012, 5, 857-871. | 2.9 | 29 |
| 122 | High Magnetoresistance in Fully Epitaxial Magnetic Tunnel Junctions with a Semiconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>GaO</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mr Barrier. Physical Review Applied, 2016, 6, . | 3.8 | 29 |
| 123 | Thermally Induced Precession-Orbit Transition of Magnetization in Voltage-Driven Magnetization Switching. Physical Review Applied, 2018, 10, . | 3.8 | 29 |
| 124 | Exchange coupling of NiFe/FeRhâ€“Ir thin films. Journal of Applied Physics, 1998, 83, 6813-6815. | 2.5 | 28 |
| 125 | Peltier Effect in Sub-micron-Size Metallic Junctions. Japanese Journal of Applied Physics, 2005, 44, L12-L14. | 1.5 | 28 |
| 126 | Damping parameter and interfacial perpendicular magnetic anisotropy of FeB nanopillar sandwiched between MgO barrier and cap layers in magnetic tunnel junctions. Applied Physics Express, 2014, 7, 033004. | 2.4 | 28 |

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|---|---|---|---|
| 127 | Controlling the chirality and polarity of vortices in magnetic tunnel junctions. Applied Physics Letters, 2014, 105, . | 3.3 | 28 |
| 128 | Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. Physical Review Applied, 2014, 2, . | 3.8 | 28 |
| 129 | Spin-transfer-torque switching in a spin-valve nanopillar with a conically magnetized free layer. Applied Physics Express, 2015, 8, 063007. | 2.4 | 27 |
| 130 | MFM observation of magnetic phase transitions in ordered FeRh systems. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 181-182. | 2.3 | 26 |
| 131 | Microwave amplification in a magnetic tunnel junction induced by heat-to-spin conversion at the nanoscale. Nature Nanotechnology, 2019, 14, 40-43. | 31.5 | 26 |
| 132 | Spin-Torque Diode Measurements of MgO-Based Magnetic Tunnel Junctions with Asymmetric Electrodes. Applied Physics Express, 2011, 4, 063001. | 2.4 | 25 |
| 133 | Spin Accumulation in Nondegenerate and Heavily Doped p-Type Germanium. Applied Physics Express, 2012, 5, 023003. | 2.4 | 25 |
| 134 | Enhancement of the transverse non-reciprocal magneto-optical effect. Journal of Applied Physics, 2012, 111, 023103. | 2.5 | 25 |
| 135 | Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. Applied Physics Express, 2014, 7, 073002. | 2.4 | 25 |
| 136 | Temperature dependence of spin-orbit torques in W/CoFeB bilayers. Applied Physics Letters, 2016, 109, . | 3.3 | 25 |
| 137 | Magnetism of Body-Centered Tetragonal FeRh1-xPdxAlloys (I) Magnetic Properties. Journal of the Physical Society of Japan, 1995, 64, 4906-4913. | 1.6 | 24 |
| 138 | Huge magnetoresistance and low junction resistance in magnetic tunnel junctions with crystalline MgO barrier. IEEE Transactions on Magnetics, 2006, 42, 103-107. | 2.1 | 24 |
| 139 | Structural phase transition and magnetic properties of FeRh1âˆ’xCox alloys. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 2025-2026. | 2.3 | 23 |
| 140 | Change in the Resistivity of bcc and bct FeRh Alloys at First-Order Magnetic Phase Transitions. Journal of the Physical Society of Japan, 1995, 64, 3978-3985. | 1.6 | 23 |
| 141 | Tunnel magnetoresistance effect in Cr1âˆ’ÎTeâˆ•AlAsâˆ•Ga1âˆ’xMnxAs magnetic tunnel junctions. Journal of Applied Physics, 2005, 97, 10D305. | 2.5 | 23 |
| 142 | Dependence on annealing temperatures of tunneling spectra in high-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. Solid State Communications, 2007, 143, 574-578. | 1.9 | 23 |
| 143 | Spin-Transfer Switching and Thermal Stability in an FePt/Au/FePt Nanopillar Prepared by Alternate Monatomic Layer Deposition. Applied Physics Express, 0, 1, 041302. | 2.4 | 23 |
| 144 | Sub-Poissonian shot noise in CoFeB/MgO/CoFeB-based magnetic tunneling junctions. Applied Physics Letters, 2011, 98, . | 3.3 | 23 |

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| 145 | Low-frequency and shot noises in CoFeB/MgO/CoFeB magnetic tunneling junctions. Physical Review B, 2012, 86, . | 3.2 | 23 |
| 146 | Temperature dependence of microwave voltage emission associated to spin-transfer induced vortex oscillation in magnetic tunnel junction. Applied Physics Letters, 2012, 100, . | 3.3 | 23 |
| 147 | Parametric excitation of magnetic vortex gyrations in spin-torque nano-oscillators. Physical Review B, 2013, 88, . | 3.2 | 23 |
| 148 | High-output microwave detector using voltage-induced ferromagnetic resonance. Applied Physics Letters, 2014, 105, 192408. | 3.3 | 23 |
| 149 | Achievement of high diode sensitivity via spin torque-induced resonant expulsion in vortex magnetic tunnel junction. Applied Physics Express, 2018, 11, 053001. | 2.4 | 23 |
| 150 | Peltier effect in metallic junctions with CPP structure. IEEE Transactions on Magnetics, 2005, 41, 2571-2573. | 2.1 | 22 |
| 151 | Giant Peltier Effect in a Submicron-Sized Cuâ€“Ni/Au Junction with Nanometer-Scale Phase Separation. Applied Physics Express, 2010, 3, 065204. | 2.4 | 22 |
| 152 | Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. Applied Physics Express, 2016, 9, 013003. | 2.4 | 22 |
| 153 | MgO overlayer thickness dependence of perpendicular magnetic anisotropy in CoFeB thin films. Journal of the Korean Physical Society, 2013, 62, 1461-1464. | 0.7 | 21 |
| 154 | Novel voltage controlled MRAM (VCM) with fast read/write circuits for ultra large last level cache. , 2016, , . | | 21 |
| 155 | Voltage-Induced Precessional Switching at Zero-Bias Magnetic Field in a Conically Magnetized Free Layer. Physical Review Applied, 2018, 9, . | 3.8 | 21 |
| 156 | Nonlinear Electrical Spin Conversion in a Biased Ferromagnetic Tunnel Contact. Physical Review Applied, 2018, 10, . | 3.8 | 21 |
| 157 | Anisotropy of spin polarization and spin accumulation in Si/Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/ferromagnet tunnel devices. Physical Review B, 2012, 86, . | 3.2 | 20 |
| 158 | Giant charge-to-spin conversion in ferromagnet via spin-orbit coupling. Nature Communications, 2021, 12, 6254. | 12.8 | 20 |
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