

# Shinji Yuasa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

369  
papers

15,596  
citations

54  
h-index

117  
g-index

400  
ext. papers

17,577  
ext. citations

4.3  
avg, IF

6.36  
L-index

#	Paper	IF	Citations
369	Binding events through the mutual synchronization of spintronic nano-neurons.. <i>Nature Communications</i> , <b>2022</b> , 13, 883	17.4	1
368	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/Mo/CoFeB/MgO junctions. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 275003	3	0
367	Improvement in perpendicular magnetic anisotropy and its voltage control efficiency in CoFeB/MgO tunnel junctions with Ta/Mo layered adhesion structures. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 213901	2.5	0
366	Large voltage-induced coercivity change in Pt/Co/CoO/amorphous TiO structure and heavy metal insertion effect. <i>Scientific Reports</i> , <b>2021</b> , 11, 21448	4.9	0
365	Giant charge-to-spin conversion in ferromagnet via spin-orbit coupling. <i>Nature Communications</i> , <b>2021</b> , 12, 6254	17.4	4
364	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. <i>APL Materials</i> , <b>2021</b> , 9, 030905	5.7	3
363	Perpendicular magnetic anisotropy and its electrical control in FeNiB ultrathin films. <i>AIP Advances</i> , <b>2021</b> , 11, 015142	1.5	
362	Reservoir Computing Leveraging the Transient Non-linear Dynamics of Spin-Torque Nano-Oscillators. <i>Natural Computing Series</i> , <b>2021</b> , 307-329	2.5	
361	Spin-torque dynamics for noise reduction in vortex-based sensors. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 122401	3.4	0
360	Control of the stochastic response of magnetization dynamics in spin-torque oscillator through radio-frequency magnetic fields. <i>Scientific Reports</i> , <b>2021</b> , 11, 16285	4.9	0
359	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/MgO junctions with atomically thin Ta adhesion layers. <i>Acta Materialia</i> , <b>2021</b> , 216, 117097	8.4	4
358	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
357	Control of the magnetic domain of Pt/Co/Ru/MgO multilayer: Effect of Co thickness and Ru insertion. <i>AIP Advances</i> , <b>2020</b> , 10, 035130	1.5	1
356	Fully epitaxial giant magnetoresistive devices with half-metallic Heusler alloy fabricated on poly-crystalline electrode using three-dimensional integration technology. <i>Acta Materialia</i> , <b>2020</b> , 200, 1038-1045	8.4	7
355	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	6
354	Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. <i>APL Materials</i> , <b>2020</b> , 8, 011108	5.7	15
353	Role of non-linear data processing on speech recognition task in the framework of reservoir computing. <i>Scientific Reports</i> , <b>2020</b> , 10, 328	4.9	26

352	Temperature dependence of higher-order magnetic anisotropy constants and voltage-controlled magnetic anisotropy effect in a Cr/Fe/MgO junction. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 0109014	1.4	3
351	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co-Ni-B Alloys. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	4
350	Structural and magneto-transport properties of lattice-mismatched epitaxial Fe/SrO/MgO/Fe magnetic tunnel junctions. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 103001	1.4	
349	Voltage-Driven Magnetization Switching Controlled by Microwave Electric Field Pumping. <i>Nano Letters</i> , <b>2020</b> , 20, 6012-6017	11.5	4
348	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. <i>Science Advances</i> , <b>2020</b> , 6, eabc2618	14.3	5
347	Influence of flicker noise and nonlinearity on the frequency spectrum of spin torque nano-oscillators. <i>Scientific Reports</i> , <b>2020</b> , 10, 13116	4.9	3
346	High-speed write error rate evaluation of a voltage-torque magnetic random access memory cell. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 060905	1.4	1
345	Voltage-induced coercivity change in Co film grown on Cr2O3 barrier. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 100911	1.4	1
344	Temporal pattern recognition with delayed feedback spin-torque nano-oscillators. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	26
343	Surface smoothing process for high-performance MgO-based magnetic tunnel junctions. <i>Applied Physics Express</i> , <b>2019</b> , 12, 023002	2.4	12
342	Low offset frequency 1/f flicker noise in spin-torque vortex oscillators. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8
341	Handle spin precession in a two-terminal lateral spin valve. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 242401	3.4	3
340	Tunneling Magnetoresistance and Spin-Dependent Diode Performance in Fully Epitaxial Magnetic Tunnel Junctions With a Rocksalt ZnO/MgO Bilayer Tunnel Barrier. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	5
339	Mutual Synchronization of Spin-Torque Nano-Oscillators Via Oersted Magnetic Fields Created by Waveguides. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	4
338	Microscopic origin of large perpendicular magnetic anisotropy in an FeIr/MgO system. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
337	Recent Progress in the Voltage-Controlled Magnetic Anisotropy Effect and the Challenges Faced in Developing Voltage-Torque MRAM. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	46
336	Physical reservoir computing based on spin torque oscillator with forced synchronization. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 164101	3.4	51
335	Quantification of Spin Drift in Devices with a Heavily Doped Si Channel. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	7

334	High frequency voltage-induced ferromagnetic resonance in magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 072401	3-4	0
333	Evaluation of higher order magnetic anisotropy in a perpendicularly magnetized epitaxial ultrathin Fe layer and its applied voltage dependence. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 090905	1-4	4
332	Tunnel magnetoresistance angular and bias dependence enabling tuneable wireless communication. <i>Scientific Reports</i> , <b>2019</b> , 9, 9541	4-9	5
331	Tunnel spin polarization of Fe/MgO/Si contacts reaching 90% with increasing MgO thickness. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	5
330	Fully epitaxial magnetic tunnel junction on a silicon wafer. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 202403	3-4	8
329	CoFeB/MgO/CoFeB magnetic tunnel junctions prepared by layer-by-layer growth of naturally oxidized MgO. <i>Applied Physics Express</i> , <b>2019</b> , 12, 103003	2-4	
328	Tunnel Magnetoresistance Effect. <i>Journal of the Institute of Electrical Engineers of Japan</i> , <b>2019</b> , 139, 595-600		
327	Development of Three-Dimensional Integration Technology for Magnetic Random Access Memories. <i>Journal of Japan Institute of Electronics Packaging</i> , <b>2019</b> , 22, 495-500	0-1	
326	Improvement of write error rate in voltage-driven magnetization switching. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 164001	3	15
325	Development of Spin dice Scalable Random Number Generator Based on Spin-Torque Switching. <i>Spin</i> , <b>2019</b> , 09, 1940009	1-3	2
324	Microwave magnetic field modulation of spin torque oscillator based on perpendicular magnetic tunnel junctions. <i>Scientific Reports</i> , <b>2019</b> , 9, 19091	4-9	0
323	Proximity exchange coupling in a Fe/MgO/Si tunnel contact detected by the inverted Hanle effect. <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	2
322	Microwave amplification in a magnetic tunnel junction induced by heat-to-spin conversion at the nanoscale. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 40-43	28-7	20
321	Perpendicular magnetic anisotropy and its electric-field-induced change at metal-dielectric interfaces. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 063001	3	24
320	Brownian motion of skyrmion bubbles and its control by voltage applications. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 012402	3-4	57
319	Write-Error Reduction of Voltage-Torque-Driven Magnetization Switching by a Controlled Voltage Pulse. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4-3	14
318	Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 012409	3-4	47
317	Enhancement in the interfacial perpendicular magnetic anisotropy and the voltage-controlled magnetic anisotropy by heavy metal doping at the Fe/MgO interface. <i>APL Materials</i> , <b>2018</b> , 6, 026101	5-7	31

316	Neural-like computing with populations of superparamagnetic basis functions. <i>Nature Communications</i> , <b>2018</b> , 9, 1533	17.4	104
315	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. <i>AIP Advances</i> , <b>2018</b> , 8, 055925	1.5	2
314	Spin-transfer torque induced by the spin anomalous Hall effect. <i>Nature Electronics</i> , <b>2018</b> , 1, 120-123	28.4	72
313	Voltage-Induced Precessional Switching at Zero-Bias Magnetic Field in a Conically Magnetized Free Layer. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	12
312	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. <i>AIP Advances</i> , <b>2018</b> , 8, 056010	1.5	3
311	Vector network analyzer ferromagnetic resonance spectrometer with field differential detection. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 053901	1.7	12
310	Fabrication of magnetic tunnel junctions with a single-crystalline LiF tunnel barrier. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FN04	1.4	3
309	Reduction in the write error rate of voltage-induced dynamic magnetization switching using the reverse bias method. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 040311	1.4	11
308	Self-Injection Locking of a Spin Torque Nano-Oscillator to Magnetic Field Feedback. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	5
307	Effect of Electric Field on the Exchange-Stiffness Constant in a Co <sub>12</sub> Fe <sub>72</sub> B <sub>16</sub> Disk-Shaped Nanomagnet 65 nm in Diameter. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	7
306	Thermally Induced Precession-Orbit Transition of Magnetization in Voltage-Driven Magnetization Switching. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	16
305	Materials for spin-transfer-torque magnetoresistive random-access memory. <i>MRS Bulletin</i> , <b>2018</b> , 43, 352-357	3.2	28
304	Epitaxial growth of MgO/Ga <sub>2</sub> O <sub>3</sub> heterostructure and its band alignment studied by X-ray photoemission spectroscopy. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 070304	1.4	7
303	Fabrication of Mg-X-O (X = Fe, Co, Ni, Cr, Mn, Ti, V, and Zn) barriers for magnetic tunnel junctions. <i>AIP Advances</i> , <b>2018</b> , 8, 055905	1.5	5
302	Deterministic Magnetization Switching by Voltage Control of Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction under an In-Plane Magnetic Field. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	6
301	Nonlinear Electrical Spin Conversion in a Biased Ferromagnetic Tunnel Contact. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	12
300	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 120307	1.4	18
299	Vowel recognition with four coupled spin-torque nano-oscillators. <i>Nature</i> , <b>2018</b> , 563, 230-234	50.4	225

298	Scaling up electrically synchronized spin torque oscillator networks. <i>Scientific Reports</i> , <b>2018</b> , 8, 13475	4.9	29
297	Achievement of high diode sensitivity via spin torque-induced resonant expulsion in vortex magnetic tunnel junction. <i>Applied Physics Express</i> , <b>2018</b> , 11, 053001	2.4	15
296	Accurate calculation and shaping of the voltage pulse waveform applied to a voltage-controlled magnetic random access memory cell. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 073002	1.4	8
295	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 092406	3.4	49
294	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. <i>Applied Physics Express</i> , <b>2017</b> , 10, 063002	2.4	10
293	Extended X-ray absorption fine structure analysis of voltage-induced effects in the interfacial atomic structure of Fe/Pt/MgO. <i>Applied Physics Express</i> , <b>2017</b> , 10, 063006	2.4	2
292	Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. <i>Nature Communications</i> , <b>2017</b> , 8, 15825	17.4	57
291	Voltage-controlled magnetic tunnel junction based MRAM for replacing high density DRAM circuits corresponding to 2X nm generation <b>2017</b> ,		2
290	Investigation on the formation process of single-crystalline GaOxbarrier in Fe/GaOx/MgO/Fe magnetic tunnel junctions. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 435001	3	8
289	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 022408	3.4	40
288	Enhancement of perpendicular magnetic anisotropy and its electric field-induced change through interface engineering in Cr/Fe/MgO. <i>Scientific Reports</i> , <b>2017</b> , 7, 5993	4.9	33
287	Neuromorphic computing with nanoscale spintronic oscillators. <i>Nature</i> , <b>2017</b> , 547, 428-431	50.4	558
286	Highly efficient voltage control of spin and enhanced interfacial perpendicular magnetic anisotropy in iridium-doped Fe/MgO magnetic tunnel junctions. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e451-e451	10.3	54
285	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 193901	2.5	1
284	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	66
283	Characterization of the magnetic moments of ultrathin Fe film in an external electric field via high-precision X-ray magnetic circular dichroism spectroscopy. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 060304	1.4	7
282	Efficiency of Spin-Transfer-Torque Switching and Thermal-Stability Factor in a Spin-Valve Nanopillar with First- and Second-Order Uniaxial Magnetic Anisotropies. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	9
281	Physical Origin and Theoretical Limit of the Phase Stability of a Spin-Torque Oscillator Stabilized by a Phase-Locked Loop. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	2

280	Voltage controlled interfacial magnetism through platinum orbits. <i>Nature Communications</i> , <b>2017</b> , 8, 15848	4.4	91
279	Neuromorphic Computing through Time-Multiplexing with a Spin-Torque Nano-Oscillator. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , IEDM 2017,	2.9	6
278	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	13
277	Giant Spin Accumulation in Silicon Nonlocal Spin-Transport Devices. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	34
276	Effect of MgO Underlying Layer on the Growth of GaO Tunnel Barrier in Epitaxial Fe/GaO/(MgO)/Fe Magnetic Tunnel Junction Structure. <i>Sensors</i> , <b>2017</b> , 17,	3.8	4
275	Spin signals in Si non-local transport devices with giant spin accumulation <b>2017</b> ,		1
274	Field angle dependence of voltage-induced ferromagnetic resonance under DC bias voltage. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 400, 159-162	2.8	7
273	Spin-Torque Induced Oscillation of a Magnetoresistive Nanopillar with a Conically Magnetized Free Layer and an In-Plane Magnetized Reference Layer. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 063802	1.5	2
272	Large Voltage-Induced Changes in the Perpendicular Magnetic Anisotropy of an MgO-Based Tunnel Junction with an Ultrathin Fe Layer. <i>Physical Review Applied</i> , <b>2016</b> , 5,	4.3	105
271	Twist in the bias dependence of spin torques in magnetic tunnel junctions. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	4
270	Influence of output power of a spin torque oscillator on phase locked loop operation. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 093003	1.4	3
269	Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. <i>Scientific Reports</i> , <b>2016</b> , 6, 30535	4.9	28
268	Microwave detection based on magnetoresistance effect in spintronic devices <b>2016</b> ,		1
267	Multi-bits memory cell using degenerated magnetic states in a synthetic antiferromagnetic reference layer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 400, 370-373	2.8	
266	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 360-4	28.7	48
265	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. <i>Applied Physics Express</i> , <b>2016</b> , 9, 013003	2.4	16
264	Systematic study of surface morphology, photoluminescence efficiency, and spin-detection sensitivity in (110)-oriented GaAs/AlGaAs quantum wells. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 113001	1.4	1
263	Voltage-Controlled Magnetic Anisotropy in an Ultrathin Fe Layer Sandwiched Between Cr and Mgo Layers <b>2016</b> ,		1

262	Evaluation of write error rate for voltage-driven dynamic magnetization switching in magnetic tunnel junctions with perpendicular magnetization. <i>Applied Physics Express</i> , <b>2016</b> , 9, 013001	2.4	56
261	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. <i>Scientific Reports</i> , <b>2016</b> , 6, 26849	4.9	34
260	Magnetic Properties of Materials for MRAM <b>2016</b> , 29-54		
259	Coherent microwave generation by spintronic feedback oscillator. <i>Scientific Reports</i> , <b>2016</b> , 6, 30747	4.9	25
258	Temperature dependence of spin-orbit torques in W/CoFeB bilayers. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 062407	3.4	22
257	Microwave emission power exceeding 10 $\mu\text{W}$ in spin torque vortex oscillator. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 252402	3.4	33
256	Spin-torque diode with tunable sensitivity and bandwidth by out-of-plane magnetic field. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 232407	3.4	6
255	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 253502	3.4	11
254	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	7
253	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. <i>Scientific Reports</i> , <b>2016</b> , 6, 31510	4.9	141
252	Novel voltage controlled MRAM (VCM) with fast read/write circuits for ultra large last level cache <b>2016</b> ,		17
251	The effect of the MgO buffer layer thickness on magnetic anisotropy in MgO/Fe/Cr/MgO buffer/MgO(001). <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 085303	2.5	7
250	Growth and magnetic properties of ultrathin epitaxial FeO films and Fe/FeO bilayers on MgO(001). <i>Applied Physics Letters</i> , <b>2016</b> , 108, 041606	3.4	12
249	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. <i>Applied Physics Express</i> , <b>2016</b> , 9, 053005	2.4	8
248	Magnetic field angle dependence of out-of-plane precession in spin torque oscillators having an in-plane magnetized free layer and a perpendicularly magnetized reference layer. <i>Applied Physics Express</i> , <b>2016</b> , 9, 053006	2.4	10
247	Suppression of spin transport in ferromagnet/oxide/semiconductor junctions by magnetic impurities in the tunnel barrier. <i>Applied Physics Express</i> , <b>2016</b> , 9, 103001	2.4	
246	High Magnetoresistance in Fully Epitaxial Magnetic Tunnel Junctions with a Semiconducting GaOx Tunnel Barrier. <i>Physical Review Applied</i> , <b>2016</b> , 6,	4.3	27
245	Spin-torque-induced oscillation at zero bias field in a magnetoresistive nanopillar with a free layer with first- and second-order uniaxial anisotropy. <i>Applied Physics Express</i> , <b>2015</b> , 8, 083005	2.4	14



244	Growth of perpendicularly magnetized thin films on a polymer buffer and voltage-induced change of magnetic anisotropy at the MgO CoFeB interface. <i>AIP Advances</i> , <b>2015</b> , 5, 067132	1.5	5
243	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. <i>Applied Physics Express</i> , <b>2015</b> , 8, 053003	2.4	51
242	Fabrication of Ge-based light-emitting diodes with a ferromagnetic metal/insulator tunnel contact. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 04DM02	1.4	2
241	Enhancement of magneto-optical Kerr effect by surface plasmons in trilayer structure consisting of double-layer dielectrics and ferromagnetic metal. <i>Optics Express</i> , <b>2015</b> , 23, 11537-55	3.3	23
240	Long-distance propagation of a surface plasmon on the surface of a ferromagnetic metal. <i>Optics Express</i> , <b>2015</b> , 23, 12834-9	3.3	6
239	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. <i>Applied Physics Express</i> , <b>2015</b> , 8, 083003	2.4	45
238	Interface engineering using an Fe oxide insertion layer for growing a metastable bcc-Co on MgO(001). <i>Applied Physics Letters</i> , <b>2015</b> , 106, 022405	3.4	6
237	Three-Terminal Device for Realizing a Voltage-Driven Spin Transistor. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	
236	Growth condition dependence of photoluminescence polarization in (100) GaAs/AlGaAs quantum wells at room temperature. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 083901	2.5	2
235	Relative strength of thermal and electrical spin currents in a ferromagnetic tunnel contact on a semiconductor. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	4
234	Nonlinear spin transport in a rectifying ferromagnet/semiconductor Schottky contact. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	5
233	Theoretical analysis of thermally activated spin-transfer-torque switching in a conically magnetized nanomagnet. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	11
232	Critical damping constant of a spin torque oscillator with a perpendicularly magnetized free layer and an in-plane magnetized reference layer. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	6
231	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. <i>Physical Review Letters</i> , <b>2015</b> , 115, 017201	7.4	40
230	Increased magnetic damping of a single domain wall and adjacent magnetic domains detected by spin torque diode in a nanostripe. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 182404	3.4	4
229	Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	68
228	Energy dispersion of tunnel spin polarization extracted from thermal and electrical spin currents. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	2
227	Spin-transfer-torque switching in a spin-valve nanopillar with a conically magnetized free layer. <i>Applied Physics Express</i> , <b>2015</b> , 8, 063007	2.4	20

226	Spin dice (physical random number generator using spin torque switching) and its thermal response <b>2015</b> ,		3
225	Magnetic Stochastic Oscillators: Noise-Induced Synchronization to Underthreshold Excitation and Comprehensive Compact Model. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	13
224	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. <i>Scientific Reports</i> , <b>2015</b> , 5, 18134	4.9	35
223	Spin-transfer torque magnetoresistive random-access memory technologies for normally off computing (invited). <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 172607	2.5	72
222	Observations of thermally excited ferromagnetic resonance on spin torque oscillators having a perpendicularly magnetized free layer. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17C740	2.5	15
221	High Q factor over 3000 due to out-of-plane precession in nano-contact spin-torque oscillator based on magnetic tunnel junctions. <i>Applied Physics Express</i> , <b>2014</b> , 7, 023003	2.4	47
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206	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. <i>IEEE Magnetism Letters</i> , <b>2014</b> , 5, 1-4	1.6	17
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79	Dependence of spin-transfer switching current on free layer thickness in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 032505	3.4	39
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76	Microscopic structures of MgO barrier layers in single-crystal Fe/MgO/Fe magnetic tunnel junctions showing giant tunneling magnetoresistance. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 251901	3.4	7
75	Scanning tunneling microscopy observations of single-crystal Fe/MgO/Fe magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08T308	2.5	2
74	Giant tunneling magnetoresistance up to 410% at room temperature in fully epitaxial Co/MgO/Co magnetic tunnel junctions with bcc Co(001) electrodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 042505	3.4	298
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66	Spin-Transfer Switching Property in the CPP-GMR Devices with Co-Fe and Co-Fe-B Free Layers. <i>Journal of the Magnetics Society of Japan</i> , <b>2006</b> , 30, 192-195		
65	Origin of the tunnel anisotropic magnetoresistance in Ga(1-x)Mn(x)As/ZnSe/Ga(1-x)Mn(x)As magnetic tunnel junctions of II-VI/III-V heterostructures. <i>Physical Review Letters</i> , <b>2005</b> , 95, 086604	7.4	104

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