

# Yoshichika Otani

## 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

12,351  
citations

56  
h-index

99  
g-index

404  
ext. papers

14,044  
ext. citations

4.4  
avg, IF

6.45  
L-index

#	Paper	IF	Citations
369	Efficient and controllable magnetization switching induced by intermixing-enhanced bulk spin-orbit torque in ferromagnetic multilayers. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 011407	17.3	1
368	Roadmap on Spin-Wave Computing. <i>IEEE Transactions on Magnetics</i> , <b>2022</b> , 1-1	2	20
367	Perspectives on spintronics with surface acoustic waves. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 220502	3.4	3
366	Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. <i>Nature Communications</i> , <b>2021</b> , 12, 6491	17.4	4
365	Interaction between surface acoustic waves and spin waves in a ferromagnetic thin film. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 545, 168672	2.8	3
364	Large Hall Signal due to Electrical Switching of an Antiferromagnetic Weyl Semimetal State. <i>Small Science</i> , <b>2021</b> , 1, 2000025		5
363	Giant Effective Damping of Octupole Oscillation in an Antiferromagnetic Weyl Semimetal. <i>Small Science</i> , <b>2021</b> , 1, 2000062		6
362	Spin-orbit torque switching of the antiferromagnetic state in polycrystalline Mn <sub>3</sub> Sn/Cu/heavy metal heterostructures. <i>AIP Advances</i> , <b>2021</b> , 11, 045110	1.5	4
361	Observation of magnon-magnon coupling with high cooperativity in NiFe cross-shaped nanoring array. <i>Nanotechnology</i> , <b>2021</b> , 32,	3.4	1
360	Nanochannels for spin-wave manipulation in Ni <sub>80</sub> Fe <sub>20</sub> nanodot arrays. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 522, 167550	2.8	2
359	Nontrivial torque generation by orbital angular momentum injection in ferromagnetic-metal/Cu/Al <sub>2</sub> O <sub>3</sub> trilayers. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	11
358	Strain-induced Megahertz Oscillation and Stable Velocity of an Antiferromagnetic Domain Wall. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	2
357	Domain structure and domain wall dynamics in topological chiral antiferromagnets from the viewpoint of magnetic octupole. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 040501	3.4	3
356	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008971	15.6	8
355	Magnonic crystals with complex geometry. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	4
354	The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	69
353	Influence of planar Hall effect on the output signal in a T-shaped spin conversion device. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 092401	3.4	0

352	Reconfigurable spin-wave dynamics in two-dimensional quasiperiodic magnonic crystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2021</b> , 134, 114901		3
351	Dynamic configurational anisotropy in Ni80Fe20 antidot lattice with complex geometry. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 884, 161105		5-7
350	Phenomenological model for the direct and inverse Edelstein effects. <i>Physical Review B</i> , <b>2020</b> , 102,	3-3	3
349	Spintronic devices for energy-efficient data storage and energy harvesting. <i>Communications Materials</i> , <b>2020</b> , 1,	6	42
348	Electric-field control of interfacial in-plane magnetic anisotropy in CoFeB/MgO junctions. <i>Physical Review B</i> , <b>2020</b> , 101,	3-3	11
347	Enhancement of acoustic spin pumping by acoustic distributed Bragg reflector cavity. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 252404	3-4	8
346	Underlayer material dependent symmetric and asymmetric behavior of voltage-controlled magnetic anisotropy in CoFeB films. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 414002	1.8	0
345	Electrical nucleation, displacement, and detection of antiferromagnetic domain walls in the chiral antiferromagnet Mn3Sn. <i>Communications Physics</i> , <b>2020</b> , 3,	5-4	10
344	Acoustic ferromagnetic resonance and spin pumping induced by surface acoustic waves. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 264002	3	20
343	Evidence for spin swapping from modulation of transverse resistance in magnetic heterostructures with Rashba interface. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 122403	3-4	0
342	Creation of magnetic skyrmions by surface acoustic waves. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 361-366	28.7	22
341	Magneto-optical Kerr effect in a non-collinear antiferromagnet Mn3Ge. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 132408	3-4	11
340	Large nonlinear ferromagnetic resonance shift and strong magnon-magnon coupling in Ni80Fe20 nanocross array. <i>Physical Review B</i> , <b>2020</b> , 101,	3-3	12
339	Structural and magnetic properties of Mn3Ge films with Pt and Ru seed layers. <i>AIP Advances</i> , <b>2020</b> , 10, 015225	1.5	4
338	Effect of sample size on anomalous Nernst effect in chiral antiferromagnetic Mn3Sn devices. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 072404	3-4	7
337	Propagation dynamics of spin excitations along skyrmion strings. <i>Nature Communications</i> , <b>2020</b> , 11, 256	17.4	40
336	Phase boundary exchange coupling in the mixed magnetic phase regime of a Pd-doped FeRh epilayer. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3-2	6
335	Chirality-induced effective magnetic field in a phthalocyanine molecule. <i>Applied Physics Express</i> , <b>2020</b> , 13, 113001	2.4	1

334	Voltage controlled on-demand magnonic nanochannels. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	17
333	Emergent electromagnetic induction in a helical-spin magnet. <i>Nature</i> , <b>2020</b> , 586, 232-236	50.4	23
332	Nonlinear Control of Damping Constant by Electric Field in Ultrathin Ferromagnetic Films. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	6
331	Nonreciprocal surface acoustic wave propagation via magneto-rotation coupling. <i>Science Advances</i> , <b>2020</b> , 6, eabb1724	14.3	28
330	Magnetic and transport properties of amorphous, B2 and L21 Co <sub>2</sub> MnGa thin films. <i>AIP Advances</i> , <b>2020</b> , 10, 085020	1.5	7
329	Electrical manipulation of a topological antiferromagnetic state. <i>Nature</i> , <b>2020</b> , 580, 608-613	50.4	84
328	Realization of Spin-dependent Functionality by Covering a Metal Surface with a Single Layer of Molecules. <i>Nano Letters</i> , <b>2019</b> , 19, 7119-7123	11.5	9
327	Interfacial mechanism in the anomalous Hall effect of Co/Bi <sub>2</sub> O <sub>3</sub> bilayers. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	4
326	Photoinduced Rashba Spin-to-Charge Conversion via an Interfacial Unoccupied State. <i>Physical Review Letters</i> , <b>2019</b> , 122, 256401	7.4	13
325	Controlled evolution of spin waves in unconventional defective honeycomb antidot lattices. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 489, 165408	2.8	4
324	Evaluation of spin diffusion length and spin Hall angle of the antiferromagnetic Weyl semimetal Mn <sub>3</sub> Sn. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	25
323	Shape dependent high frequency spin-wave dynamics in nanoscale magnonic crystals. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 487, 165263	2.8	4
322	Towards magnonic devices based on voltage-controlled magnetic anisotropy. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	51
321	Anisotropic spin-wave dispersion in two-dimensional Ni <sub>80</sub> Fe <sub>20</sub> diatomic nanodot array. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 491, 165557	2.8	3
320	Anisotropic spin waves in two-dimensional triangular shaped bi-component magnonic crystal. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 490, 165484	2.8	4
319	Enhanced spin-to-charge current conversion at metal/oxide interfaces by lowering the temperature. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 110907	1.4	2
318	Spin-charge Current Interconversion at Surfaces and Interfaces. <i>Journal of the Institute of Electrical Engineers of Japan</i> , <b>2019</b> , 139, 736-741	0	
317	Electric field control of spin waves in ultrathin CoFeB films. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9

316	Relation between spin Hall effect and anomalous Hall effect in 3d ferromagnetic metals. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	29
315	Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. <i>Nature</i> , <b>2019</b> , 565, 627-630	50.4	118
314	Influence of anisotropic dipolar interaction on the spin dynamics of Ni <sub>80</sub> Fe <sub>20</sub> nanodot arrays arranged in honeycomb and octagonal lattices. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 458, 95-104	2.8	7
313	Macroscopic Magnetization Control by Symmetry Breaking of Photoinduced Spin Reorientation with Intense Terahertz Magnetic Near Field. <i>Physical Review Letters</i> , <b>2018</b> , 120, 107202	7.4	22
312	Voltage-Controlled Reconfigurable Spin-Wave Nanochannels and Logic Devices. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	47
311	Anomalous modulation of spin torque-induced ferromagnetic resonance caused by direct currents in permalloy/platinum bilayer thin films. <i>Applied Physics Express</i> , <b>2018</b> , 11, 013002	2.4	3
310	Clear variation of spin splitting by changing electron distribution at non-magnetic metal/BiO interfaces. <i>Scientific Reports</i> , <b>2018</b> , 8, 5564	4.9	29
309	Direct current modulation of spin-Hall-induced spin torque ferromagnetic resonance in platinum/permalloy bilayer thin films. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 060301	1.4	1
308	Spin accumulation at nonmagnetic interface induced by direct Rashba-Edelstein effect. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 15664-15670	2.1	5
307	Detection of the interfacial exchange field at a ferromagnetic insulator-nonmagnetic metal interface with pure spin currents. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5
306	Spin Relaxation Enhanced by Decorating Cu Surfaces With Lead (II) Phthalocyanine Molecules. <i>IEEE Transactions on Magnetism</i> , <b>2018</b> , 54, 1-4	2	1
305	Inverse Edelstein effect induced by magnon-phonon coupling. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	36
304	Unveiling the mechanisms of the spin Hall effect in Ta. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	35
303	Field-controlled ultrafast magnetization dynamics in two-dimensional nanoscale ferromagnetic antidot arrays. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 1123-1134	3	10
302	Large enhancement of the spin Hall effect in Mn metal by Sn doping. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	7
301	Anomalous Hall effect in thin films of the Weyl antiferromagnet Mn <sub>3</sub> Sn. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 202402	3.4	54
300	Active Control of Mode Crossover and Mode Hopping of Spin Waves in a Ferromagnetic Antidot Lattice. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	11
299	Tunable Angle-Dependent Magnetization Dynamics in Ni <sub>80</sub> Fe <sub>20</sub> Nanocross Structures of Varying Size. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	13

298	Magneto-thermodynamic Properties and Anomalous Magnetic Phase Transition in FeRh Nanowires. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-4	2	1
297	Efficient spin current generation and suppression of magnetic damping due to fast spin ejection from nonmagnetic metal/indium-tin-oxide interfaces. <i>APL Materials</i> , <b>2018</b> , 6, 101105	5-7	10
296	Quantum materials for spin and charge conversion. <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	75
295	Important role of magnetization precession angle measurement in inverse spin Hall effect induced by spin pumping. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 022404	3-4	23
294	Spin pumping due to spin waves in magnetic vortex structure. <i>Applied Physics Express</i> , <b>2017</b> , 10, 053002	2-4	2
293	High output voltage of magnetic tunnel junctions with a Cu(In <sub>0.8</sub> Ga <sub>0.2</sub> )Se <sub>2</sub> semiconducting barrier with a low resistance-area product. <i>Applied Physics Express</i> , <b>2017</b> , 10, 013008	2-4	7
292	Effect of Magnetic Fluctuations on Spin Current. <i>Journal of the Physical Society of Japan</i> , <b>2017</b> , 86, 011004	4-5	3
291	Voltage-induced magnetization dynamics in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Scientific Reports</i> , <b>2017</b> , 7, 42511	4-9	27
290	Bias field tunable magnetic configuration and magnetization dynamics in Ni <sub>80</sub> Fe <sub>20</sub> nano-cross structures with varying arm length. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 043909	2-5	5
289	Current-Nonlinear Hall Effect and Spin-Orbit Torque Magnetization Switching in a Magnetic Topological Insulator. <i>Physical Review Letters</i> , <b>2017</b> , 119, 137204	7-4	85
288	Evaluation of bulk-interface contributions to Edelstein magnetoresistance at metal/oxide interfaces. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	22
287	Spin diffusion length of Permalloy using spin absorption in lateral spin valves. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 082407	3-4	18
286	Direct optical observation of spin accumulation at nonmagnetic metal/oxide interface. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 092402	3-4	17
285	Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. <i>Nature Physics</i> , <b>2017</b> , 13, 1085-1090	16.2	256
284	Excitation of coherent propagating spin waves in ultrathin CoFeB film by voltage-controlled magnetic anisotropy. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 052404	3-4	30
283	Effect of excitation power on voltage induced local magnetization dynamics in an ultrathin CoFeB film. <i>Scientific Reports</i> , <b>2017</b> , 7, 2318	4-9	16
282	Efficient Modulation of Spin Waves in Two-Dimensional Octagonal Magnonic Crystal. <i>ACS Nano</i> , <b>2017</b> , 11, 8814-8821	16.7	26
281	Anomalous Nernst effect in a microfabricated thermoelectric element made of chiral antiferromagnet Mn <sub>3</sub> Sn. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 202404	3-4	30

280	Spin conversion on the nanoscale. <i>Nature Physics</i> , <b>2017</b> , 13, 829-832	16.2	55
279	Investigation of magnetization dynamics in 2D Ni <sub>80</sub> Fe <sub>20</sub> diatomic nanodot arrays. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 385002	3	10
278	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory <b>2016</b> , 681-706		1
277	Spin mixing conductance in Cu $\bar{\Gamma}$ dilute alloys. <i>Applied Physics Express</i> , <b>2016</b> , 9, 063009	2.4	10
276	Tuning the spin Hall effect of Pt from the moderately dirty to the superclean regime. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	186
275	Fermi-level-dependent charge-to-spin current conversion by Dirac surface states of topological insulators. <i>Nature Physics</i> , <b>2016</b> , 12, 1027-1031	16.2	210
274	Magneto-chiral nonreciprocity of volume spin wave propagation in chiral-lattice ferromagnets. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	67
273	Experimental observation of spin-to-charge current conversion at non-magnetic metal/Bi <sub>2</sub> O <sub>3</sub> interfaces. <i>Applied Physics Express</i> , <b>2016</b> , 9, 033001	2.4	59
272	Observation of anisotropic energy transfer in magnetically coupled magnetic vortex pair. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 242402	3.4	8
271	Shape- and Interface-Induced Control of Spin Dynamics of Two-Dimensional Bicomponent Magnonic Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18339-46	9.5	26
270	Influence of inverse spin Hall effect in spin-torque ferromagnetic resonance measurements. <i>Applied Physics Express</i> , <b>2016</b> , 9, 023002	2.4	42
269	Large magnetoresistance in Heusler-alloy-based epitaxial magnetic junctions with semiconducting Cu(In <sub>0.8</sub> Ga <sub>0.2</sub> )Se <sub>2</sub> spacer. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 032409	3.4	25
268	Transition from strongly collective to completely isolated ultrafast magnetization dynamics in two-dimensional hexagonal arrays of nanodots with varying inter-dot separation. <i>RSC Advances</i> , <b>2016</b> , 6, 110393-110399	3.7	9
267	Spin-current-driven thermoelectric generation based on interfacial spin-orbit coupling. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 242409	3.4	5
266	Optimization of spin injection and spin detection in lateral nanostructures by geometrical means. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 414, 132-143	2.8	3
265	Revisiting the measurement of the spin relaxation time in graphene-based devices. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	37
264	Tunable configurational anisotropy in collective magnetization dynamics of Ni <sub>80</sub> Fe <sub>20</sub> nanodot arrays with varying dot shapes. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 213909	2.5	19
263	Realization of a micrometre-scale spin-wave interferometer. <i>Scientific Reports</i> , <b>2015</b> , 5, 9873	4.9	41

262	Quasiparticle-mediated spin Hall effect in a superconductor. <i>Nature Materials</i> , <b>2015</b> , 14, 675-8	27	63
261	Tunable picosecond spin dynamics in two dimensional ferromagnetic nanodot arrays with varying lattice symmetry. <i>RSC Advances</i> , <b>2015</b> , 5, 34027-34031	3-7	7
260	All-optical investigation of tunable picosecond magnetization dynamics in ferromagnetic nanostripes with a width down to 50 nm. <i>Nanoscale</i> , <b>2015</b> , 7, 18312-9	7-7	18
259	Spin transport in non-magnetic nano-structures induced by non-local spin injection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 68, 239-263	3	21
258	Spin relaxation mechanism in a highly doped organic polymer film. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	21
257	Crossover between spin swapping and Hall effect in disordered systems. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	9
256	Strong Suppression of the Spin Hall Effect in the Spin Glass State. <i>Physical Review Letters</i> , <b>2015</b> , 115, 196602	7-4	9
255	Tunable spin wave spectra in two-dimensional Ni <sub>80</sub> Fe <sub>20</sub> antidot lattices with varying lattice symmetry. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 053910	2-5	24
254	Spin relaxation characteristics in Ag nanowire covered with various oxides. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 122406	3-4	8
253	Selective mode excitation in three-chained magnetic vortices. <i>Applied Physics Express</i> , <b>2015</b> , 8, 063005	2-4	4
252	Reciprocal spin Hall effects in conductors with strong spin-orbit coupling: a review. <i>Reports on Progress in Physics</i> , <b>2015</b> , 78, 124501	14-4	75
251	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory <b>2015</b> , 1-21		
250	Spin injection into a superconductor with strong spin-orbit coupling. <i>Physical Review Letters</i> , <b>2014</b> , 112, 036602	7-4	54
249	Extrinsic spin Hall effects measured with lateral spin valve structures. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	82
248	Tunable spin wave dynamics in two-dimensional Ni <sub>80</sub> Fe <sub>20</sub> nanodot lattices by varying dot shape. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 012406	3-4	22
247	The 2014 Magnetism Roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 333001	3	291
246	Thickness dependence of spin torque ferromagnetic resonance in Co <sub>75</sub> Fe <sub>25</sub> /Pt bilayer films. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 072405	3-4	63
245	Effect of anisotropic spin absorption on the Hanle effect in lateral spin valves. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	27



244	Modulation of effective damping constant using spin Hall effect. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 092408	3.4	30
243	Inverse spin Hall effect in a closed loop circuit. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 242415	3.4	16
242	Width dependent transition of quantized spin-wave modes in Ni80Fe20 square nanorings. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 163912	2.5	8
241	Propagation of nonlinearly generated harmonic spin waves in microscopic stripes. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 053914	2.5	7
240	Detection of a symmetric circular gyration of the vortex core via the second-order harmonic magnetoresistance oscillation. <i>Applied Physics Express</i> , <b>2014</b> , 7, 023006	2.4	5
239	Critical exponents and domain structures of magnetic semiconductor EuS and Gd-doped EuS films near Curie temperature. <i>Applied Physics Express</i> , <b>2014</b> , 7, 113002	2.4	6
238	Tunable Magnonic Spectra in Two-Dimensional Magnonic Crystals with Variable Lattice Symmetry. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2378-2386	15.6	69
237	5d iridium oxide as a material for spin-current detection. <i>Nature Communications</i> , <b>2013</b> , 4, 2893	17.4	84
236	Spin injection properties in trilayer graphene lateral spin valves. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 033105	3.4	18
235	Configurational anisotropic spin waves in cross-shaped Ni80Fe20 nanoelements. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 192402	3.4	16
234	Impact of interface properties on spin accumulation in dual-injection lateral spin valves. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 162403	3.4	8
233	Experimental verification of comparability between spin-orbit and spin-diffusion lengths. <i>Physical Review Letters</i> , <b>2013</b> , 110, 016805	7.4	77
232	The spin Hall effect as a probe of nonlinear spin fluctuations. <i>Nature Communications</i> , <b>2012</b> , 3, 1058	17.4	26
231	Anisotropy in collective precessional dynamics in arrays of Ni80Fe20 nanoelements. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07D503	2.5	14
230	Optically induced tunable magnetization dynamics in nanoscale co antidot lattices. <i>ACS Nano</i> , <b>2012</b> , 6, 3397-403	16.7	56
229	Spin relaxation mechanism in silver nanowires covered with MgO protection layer. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 022415	3.4	32
228	Temperature Evolution of Spin-Polarized Electron Tunneling in Silicon Nanowire/Bismuth Permalloy Lateral Spin Valve System. <i>Applied Physics Express</i> , <b>2012</b> , 5, 045001	2.4	5
227	Giant spin Hall effect induced by skew scattering from bismuth impurities inside thin film CuBi alloys. <i>Physical Review Letters</i> , <b>2012</b> , 109, 156602	7.4	240

226	Nonlinear motion of magnetic vortex cores during fast magnetic pulses. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	3
225	Towards coherent spin precession in pure-spin current. <i>Scientific Reports</i> , <b>2012</b> , 2, 628	4.9	17
224	PERFECT ALLOYS FOR SPIN HALL CURRENT-INDUCED MAGNETIZATION SWITCHING. <i>Spin</i> , <b>2012</b> , 02, 1250010	0.10	15
223	Generation of Large Spin Accumulation in S/N/S Josephson Junctions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 400, 022130	0.3	
222	Spin Injection Into Magnesium Nanowire. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1545-1548	2	3
221	Indication of intrinsic spin Hall effect in 4d and 5d transition metals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	255
220	Giant enhancement of spin accumulation and long-distance spin precession in metallic lateral spin valves. <i>Nature Materials</i> , <b>2011</b> , 10, 527-31	27	159
219	Dynamics of coupled vortices in a pair of ferromagnetic disks. <i>Physical Review Letters</i> , <b>2011</b> , 106, 197203	7.4	98
218	Efficient spin injection into nonmagnetic metals through low-resistance MgO. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07C506	2.5	3
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60	Magnetic flux pinning in Y-Ba-Cu-O superconductor containing thermally diffused impurities. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 2634-2636	2.5	1
59	X-Ray Diffraction Studies of FeRh <sub>0.38</sub> Pd <sub>0.62</sub> Alloy with Orthorhombic Structure. <i>Journal of the Physical Society of Japan</i> , <b>1995</b> , 64, 3153-3156	1.5	10
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57	Magnetism in Body-Centered Tetragonal FeRh <sub>1-x</sub> Pdx Alloys (II) Band Structure. <i>Journal of the Physical Society of Japan</i> , <b>1995</b> , 64, 4914-4922	1.5	8
56	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 945-947	2	3
55	Magneto-Volume and Tetragonal Elongation Effects on Magnetic Phase Transitions of Body-Centered Tetragonal FeRh <sub>1-x</sub> Ptx. <i>Journal of the Physical Society of Japan</i> , <b>1994</b> , 63, 3129-3144	1.5	48
54	Magnetic properties of amorphous nanocolumns created by heavy ion irradiation of paramagnetic YCo <sub>2</sub> thin films (invited). <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 6661-6666	2.5	14
53	Magnetic flux penetration process in superconducting Nb film covered with lithographic array of ferromagnetic particles. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 2945-2946	1.3	11
52	Anisotropic flux pinning behavior in Y <sub>2</sub> BaCu <sub>3</sub> O system. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 2729-2730	1.3	1
51	Magnetic properties of fine Ni particle coated with Pd. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 135, 293-297	2.8	9
50	Characteristics of Yttrium Iron Garnet Ultrafine Particles Prepared by the Alkoxide Method. <i>Journal of the American Ceramic Society</i> , <b>1994</b> , 77, 1787-1792	3.8	19
49	Compositional Variation of Saturation Magnetization for Fe-N Thin Films with Respect to Nitrogen. <i>IEEE Translation Journal on Magnetics in Japan</i> , <b>1994</b> , 9, 191-196		3
48	Magnetic Properties of bcc FeRh <sub>1-x</sub> Mx Systems. <i>IEEE Translation Journal on Magnetics in Japan</i> , <b>1994</b> , 9, 202-209		12
47	First-Order Magnetic Phase Transition in bcc FeRh <sub>1-x</sub> Alloy under High Pressures up to 6.2 GPa. <i>Journal of the Physical Society of Japan</i> , <b>1994</b> , 63, 855-858	1.5	10

46	Magnetic Properties of bcc FeRh <sub>1-x</sub> M <sub>x</sub> Systems.. <i>Journal of the Magnetism Society of Japan</i> , <b>1994</b> , 18, 235-240		8
45	First-Order Magnetic Phase Transitions Observed in bct FeRhPt, Pd Systems. <i>Japanese Journal of Applied Physics</i> , <b>1993</b> , 32, 232	1.4	27
44	Flux Pinning Mechanism of High-T <sub>c</sub> YBaCuO Superconductor Containing Artificial Pinning Centers Y <sub>2</sub> BaCuO <sub>5</sub> . <i>Journal of the Physical Society of Japan</i> , <b>1993</b> , 62, 1006-1016	1.5	5
43	Laser ablation deposition of metallic films and bilayers (Fe, rare earth and R/Fe bilayers). <i>Journal of Magnetism and Magnetic Materials</i> , <b>1993</b> , 126, 225-231	2.8	20
42	Magnetostatic interactions between magnetic arrays and superconducting thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1993</b> , 126, 622-625	2.8	118
41	Magnetic and transport properties of ferromagnetic particulate arrays fabricated on superconducting thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1993</b> , 121, 223-226	2.8	60
40	TMOKE hysteresis loops in Bragg diffraction from 2D patterns. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1993</b> , 121, 516-519	2.8	53
39	Neutral-strange-particle production in 200-GeV/c p/ pi +/K+ interactions on Au, Ag, and Mg. <i>Physical Review D</i> , <b>1992</b> , 45, 734-742	4.9	8
38	Magnetic Properties of Interstitial Compounds Sm(Fe <sub>11</sub> Ti) <sub>X-1</sub> (X=N,C). <i>IEEE Translation Journal on Magnetism in Japan</i> , <b>1992</b> , 7, 613-617		1
37	Degree of alignment and angular dependences of coercivity for Nd <sub>15</sub> Fe <sub>77</sub> B <sub>8</sub> and Pr <sub>15</sub> Fe <sub>77</sub> B <sub>8</sub> magnets. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 1117-1118	2.8	5
36	Gas-phase carbonation of R <sub>2</sub> Fe <sub>17</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 1439-1448		44
35	Gas-phase carbonation of R <sub>2</sub> Fe <sub>17</sub> ; R = Y, Sm. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 98, 76-78	2.8	157
34	Metal bonded Sm <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> magnets. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 6735-6737	2.5	99
33	Magnetic properties of a new family of ternary rare-earth iron nitrides R <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> (invited). <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 5584-5589	2.5	126
32	. <i>IEEE Transactions on Magnetism</i> , <b>1990</b> , 26, 2658-2660	2	15
31	. <i>IEEE Transactions on Magnetism</i> , <b>1990</b> , 26, 1742-1744	2	6
30	Rapidities of produced particles in 200-GeV/c pi +/p/K+ interactions on Au, Ag, and Mg. <i>Physical Review D</i> , <b>1990</b> , 41, 765-773	4.9	11
29	Anomalous demagnetization process at very low temperature in Nd-Fe-B magnets. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 4619-4621	2.5	16

28	Magnetic-field-induced alignment in melt-spun Pr <sub>2</sub> Co <sub>14</sub> B. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 4616-4618.	18.5	9
27	Coercivity and microstructure of melt-spun Sm(Fe <sub>11</sub> Ti). <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 4659-4661.	2.5	27
26	Magnetic properties of a new series of rare-earth iron nitrides: R <sub>2</sub> Fe <sub>17</sub> Ny (y approximately 2.6). <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 6465-6470.	1.8	313
25	. <i>IEEE Transactions on Magnetics</i> , <b>1989</b> , 25, 3431-3433.	2	8
24	Multiparticle production by 200-GeV/c hadrons on gold, silver, and magnesium targets. <i>Physical Review D</i> , <b>1989</b> , 39, 2484-2493.	4.9	27
23	Demagnetization process of sintered R <sub>17</sub> Fe <sub>83</sub> B <sub>x</sub> magnets (R=Nd or Pr). <i>Journal of Applied Physics</i> , <b>1988</b> , 63, 3316-3318.	2.5	5
22	Nonsinglet valence-quark distribution from neutrino-deuterium deep-inelastic scattering. <i>Physical Review D</i> , <b>1988</b> , 37, 1105-1112.	4.9	3
21	High Field Torque Magnetometer for Superconducting Magnets. <i>Japanese Journal of Applied Physics</i> , <b>1987</b> , 26, 623-626.	1.4	10
20	Magnetocrystalline anisotropy in Nd-Fe-B magnet. <i>Journal of Applied Physics</i> , <b>1987</b> , 61, 3436-3438.	2.5	20
19	Magnetic image effect in superconducting magnet and magnetization measurement. <i>Journal of Applied Physics</i> , <b>1987</b> , 61, 3479-3481.	2.5	1
18	Temperature dependence of the coercivity of sintered R <sub>17</sub> Fe <sub>83</sub> B <sub>x</sub> magnets (R = Pr and Nd). <i>Journal of Magnetism and Magnetic Materials</i> , <b>1987</b> , 70, 316-318.	2.8	9
17	Determination of the magnetization vector in the intermetallic compound Nd <sub>2</sub> Fe <sub>14</sub> B single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1987</b> , 70, 325-327.	2.8	3
16	Demagnetization process and magnetic seeds for R-Fe-B permanent magnets. <i>IEEE Transactions on Magnetics</i> , <b>1987</b> , 23, 2527-2529.	2	15
15	Magnetization processes in Nd-Fe-B permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1986</b> , 60, 168-170.	2.8	19
14	Magnetoelastic martensitic transformation in Fe <sub>3</sub> Pt invar alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1986</b> , 54-57, 1063-1064.	2.8	
13	Giant magnetic anisotropy and spin orientation in a single phase Nd-Fe-B magnet. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1986</b> , 54-57, 587-588.	2.8	12
12	Magnetic Properties of Intermetallic Compound $\epsilon$ Mn <sub>5</sub> Ge <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , <b>1985</b> , 54, 3649-3650.	1.5	7
11	Comparison of cross sections from deep-inelastic neutrino scattering on neon and deuterium. <i>Physical Review D</i> , <b>1985</b> , 32, 2441-2444.	4.9	15

10	Torque Magnetometer Using A Superconducting Magnet. <i>IEEE Translation Journal on Magnetism in Japan</i> , <b>1985</b> , 1, 1090-1091		
9	Charged-particle multiplicity distributions in $\bar{p}$ and $\bar{p}$ charged-current interactions. <i>Physical Review D</i> , <b>1983</b> , 27, 47-57	4.9	35
8	Quasielastic charmed-baryon production and exclusive strange-particle production by high-energy neutrinos. <i>Physical Review D</i> , <b>1983</b> , 28, 2129-2134	4.9	9
7	Exclusive neutral-current reaction $\bar{p}-\bar{p}$ in the BNL 7-foot deuterium bubble chamber. <i>Physical Review D</i> , <b>1983</b> , 28, 2900-2902	4.9	4
6	Reaction $\bar{p}-\bar{p}$ at 8 GeV/c. <i>Physical Review D</i> , <b>1982</b> , 26, 1554-1571	4.9	2
5	Elastic scattering and particle production in two-prong $\bar{p}$ interactions at 8 GeV/c. <i>Physical Review D</i> , <b>1982</b> , 26, 1572-1587	4.9	
4	Neutral-Current $\bar{p}$ and $\bar{p}$ Cross Sections from High-Energy Neutrino Interactions in Deuterium. <i>Physical Review Letters</i> , <b>1982</b> , 48, 910-914	7.4	22
3	Some $g(1700)$ decay modes. <i>Physical Review D</i> , <b>1982</b> , 26, 2183-2189	4.9	1
2	Charmed-Baryon Production in $\bar{p}-\bar{p}$ Reactions. <i>Physical Review Letters</i> , <b>1982</b> , 49, 1128-1131	7.4	7
1	Progress in Spinconversion and its Connection with Band Crossing. <i>Annalen Der Physik</i> , 2100398	2.6	2