

Shun Kanai

List of Publications by Year in descending order

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45
papers

5,493
citations

279701

23
h-index

243529

44
g-index

47
all docs

47
docs citations

47
times ranked

4049
citing authors

#	ARTICLE	IF	CITATIONS
1	A perpendicular-anisotropy CoFeB/MgO magnetic tunnel junction. <i>Nature Materials</i> , 2010, 9, 721-724.	13.3	3,020
2	Electric-field effects on thickness dependent magnetic anisotropy of sputtered MgO/Co ₄₀ Fe ₄₀ B ₂₀ /Ta structures. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	443
3	Electric field-induced magnetization reversal in a perpendicular-anisotropy CoFeB-MgO magnetic tunnel junction. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	341
4	Properties of magnetic tunnel junctions with a MgO/CoFeB/Ta/CoFeB/MgO recording structure down to junction diameter of 11 nm. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	240
5	Quantum guidelines for solid-state spin defects. <i>Nature Reviews Materials</i> , 2021, 6, 906-925.	23.3	185
6	Electric-field effects on magnetic anisotropy and damping constant in Ta/CoFeB/MgO investigated by ferromagnetic resonance. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	106
7	Magnetization switching in a CoFeB/MgO magnetic tunnel junction by combining spin-transfer torque and electric field-effect. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	87
8	Chiral-spin rotation of non-collinear antiferromagnet by spin-orbit torque. <i>Nature Materials</i> , 2021, 20, 1364-1370.	13.3	87
9	Electric-field-induced magnetization switching in CoFeB/MgO magnetic tunnel junctions with high junction resistance. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	84
10	Observation of boron diffusion in an annealed Ta/CoFeB/MgO magnetic tunnel junction with standing-wave hard x-ray photoemission. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	64
11	Nanosecond Random Telegraph Noise in In-Plane Magnetic Tunnel Junctions. <i>Physical Review Letters</i> , 2021, 126, 117202.	2.9	64
12	RECENT PROGRESS OF PERPENDICULAR ANISOTROPY MAGNETIC TUNNEL JUNCTIONS FOR NONVOLATILE VLSI. <i>Spin</i> , 2012, 02, 1240003.	0.6	63
13	Memristive control of mutual spin Hall nano-oscillator synchronization for neuromorphic computing. <i>Nature Materials</i> , 2022, 21, 81-87.	13.3	63
14	In-plane magnetic field dependence of electric field-induced magnetization switching. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	53
15	Electric field control of Skyrmions in magnetic nanodisks. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	53
16	Magnetization dynamics and its scattering mechanism in thin CoFeB films with interfacial anisotropy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3815-3820.	3.3	50
17	Giant voltage-controlled modulation of spin Hall nano-oscillator damping. <i>Nature Communications</i> , 2020, 11, 4006.	5.8	48
18	Magnetic anisotropy in Ta/CoFeB/MgO investigated by x-ray magnetic circular dichroism and first-principles calculation. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	47

#	ARTICLE	IF	CITATIONS
19	Electric field-induced ferromagnetic resonance in a CoFeB/MgO magnetic tunnel junction under dc bias voltages. Applied Physics Letters, 2014, 105, .	1.5	44
20	Size Dependence of Magnetic Properties of Nanoscale CoFeB/MgO Magnetic Tunnel Junctions with Perpendicular Magnetic Easy Axis Observed by Ferromagnetic Resonance. Applied Physics Express, 2013, 6, 063002.	1.1	38
21	Generalized scaling of spin qubit coherence in over 12,000 host materials. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121808119.	3.3	38
22	Effect of electric-field modulation of magnetic parameters on domain structure in MgO/CoFeB. AIP Advances, 2016, 6, .	0.6	27
23	Crystal orientation and anomalous Hall effect of sputter-deposited non-collinear antiferromagnetic Mn ₃ Sn thin films. Applied Physics Express, 2020, 13, 013001.	1.1	24
24	Perpendicular-anisotropy CoFeB-MgO based magnetic tunnel junctions scaling down to 1X nm. , 2014, , .		20
25	Theory of relaxation time of stochastic nanomagnets. Physical Review B, 2021, 103, .	1.1	20
26	Magnetic and transport properties of Sb ₂ Te ₃ doped with high concentration of Cr. Applied Physics Express, 2017, 10, 103001.	1.1	17
27	Electric-field effect on spin-wave resonance in a nanoscale CoFeB/MgO magnetic tunnel junction. Applied Physics Letters, 2017, 111, .	1.5	16
28	Electric-field induced nonlinear ferromagnetic resonance in a CoFeB/MgO magnetic tunnel junction. Applied Physics Letters, 2015, 107, .	1.5	15
29	Ferromagnetic resonance in nanoscale CoFeB/MgO magnetic tunnel junctions. Journal of Applied Physics, 2015, 117, 17B708.	1.1	14
30	Correlation of anomalous Hall effect with structural parameters and magnetic ordering in Mn ₃ Sn thin films. AIP Advances, 2021, 11, .	0.6	14
31	Magnetization Reversal by Field and Current Pulses in Elliptic CoFeB/MgO Tunnel Junctions With Perpendicular Easy Axis. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	13
32	Electric-field effect on the easy cone angle of the easy-cone state in CoFeB/MgO investigated by ferromagnetic resonance. Applied Physics Letters, 2018, 112, .	1.5	13
33	Observation of domain structure in non-collinear antiferromagnetic Mn ₃ Sn thin films by magneto-optical Kerr effect. Applied Physics Letters, 2022, 120, .	1.5	12
34	Sigmoidal curves of stochastic magnetic tunnel junctions with perpendicular easy axis. Applied Physics Letters, 2021, 119, .	1.5	10
35	Magnetic Anisotropy Modulation in Ta/ CoFeB/ MgO Structure by Electric Fields. Journal of Physics: Conference Series, 2011, 266, 012092.	0.3	9
36	Damping constant in a free layer in nanoscale CoFeB/MgO magnetic tunnel junctions investigated by homodyne-detected ferromagnetic resonance. Applied Physics Express, 2017, 10, 013001.	1.1	9

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37	Current-induced magnetization switching in a nano-scale CoFeB-MgO magnetic tunnel junction under in-plane magnetic field. AIP Advances, 2017, 7, 055927.	0.6	7
38	Write-error rate of nanoscale magnetic tunnel junctions in the precessional regime. Applied Physics Letters, 2019, 115, .	1.5	7
39	Ferromagnetic resonance spectra of Py deposited on (Bi _{1-x} Sb _x) ₂ Te ₃ . AIP Advances, 2017, 7, .	0.6	6
40	All-optical probe of magnetization precession modulated by spin-orbit torque. Applied Physics Letters, 2020, 117, .	1.5	6
41	In-plane anisotropy of a nano-scaled magnetic tunnel junction with perpendicular magnetic easy axis. Japanese Journal of Applied Physics, 2015, 54, 04DM03.	0.8	5
42	Temperature dependence of ferromagnetic resonance spectra of permalloy on (Bi _{1-x}) ₂ Tj ETQq0 0 0 rgBT /Overlock 10 Physics, 2018, 57, 020302.	0.8	4
43	Local bifurcation with spin-transfer torque in superparamagnetic tunnel junctions. Nature Communications, 2022, 13, .	5.8	3
44	Electric Field-Induced Magnetization Switching in CoFeB-MgO Static Magnetic Field Angle Dependence. IEEE Transactions on Magnetism, 2014, 50, 1-3.	1.2	2
45	Electric-field-induced magnetization switching in CoFeB/MgO magnetic tunnel junctions. Japanese Journal of Applied Physics, 2017, 56, 0802A3.	0.8	2