

Shun Kanai

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Memristive control of mutual spin Hall nano-oscillator synchronization for neuromorphic computing. <i>Nature Materials</i> , 2022, 21, 81-87. | 13.3 | 63 |
| 2 | Generalized scaling of spin qubit coherence in over 12,000 host materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121808119. | 3.3 | 38 |
| 3 | Observation of domain structure in non-collinear antiferromagnetic Mn ₃ Sn thin films by magneto-optical Kerr effect. <i>Applied Physics Letters</i> , 2022, 120, . | 1.5 | 12 |
| 4 | Local bifurcation with spin-transfer torque in superparamagnetic tunnel junctions. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 3 |
| 5 | Theory of relaxation time of stochastic nanomagnets. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 20 |
| 6 | Nanosecond Random Telegraph Noise in In-Plane Magnetic Tunnel Junctions. <i>Physical Review Letters</i> , 2021, 126, 117202. | 2.9 | 64 |
| 7 | Quantum guidelines for solid-state spin defects. <i>Nature Reviews Materials</i> , 2021, 6, 906-925. | 23.3 | 185 |
| 8 | Chiral-spin rotation of non-collinear antiferromagnet by spin-orbit torque. <i>Nature Materials</i> , 2021, 20, 1364-1370. | 13.3 | 87 |
| 9 | Correlation of anomalous Hall effect with structural parameters and magnetic ordering in Mn ₃ Sn thin films. <i>AIP Advances</i> , 2021, 11, . | 0.6 | 14 |
| 10 | Sigmoidal curves of stochastic magnetic tunnel junctions with perpendicular easy axis. <i>Applied Physics Letters</i> , 2021, 119, . | 1.5 | 10 |
| 11 | Crystal orientation and anomalous Hall effect of sputter-deposited non-collinear antiferromagnetic Mn ₃ Sn thin films. <i>Applied Physics Express</i> , 2020, 13, 013001. | 1.1 | 24 |
| 12 | Giant voltage-controlled modulation of spin Hall nano-oscillator damping. <i>Nature Communications</i> , 2020, 11, 4006. | 5.8 | 48 |
| 13 | All-optical probe of magnetization precession modulated by spin-orbit torque. <i>Applied Physics Letters</i> , 2020, 117, . | 1.5 | 6 |
| 14 | Write-error rate of nanoscale magnetic tunnel junctions in the precessional regime. <i>Applied Physics Letters</i> , 2019, 115, . | 1.5 | 7 |
| 15 | Temperature dependence of ferromagnetic resonance spectra of permalloy on (Bi _{1-x} Sb _x) ₂ Te ₃ . <i>Applied Physics Letters</i> , 2018, 112, . | 0.8 | 4 |
| 16 | Electric-field effect on the easy cone angle of the easy-cone state in CoFeB/MgO investigated by ferromagnetic resonance. <i>Applied Physics Letters</i> , 2018, 112, . | 1.5 | 13 |
| 17 | Damping constant in a free layer in nanoscale CoFeB/MgO magnetic tunnel junctions investigated by homodyne-detected ferromagnetic resonance. <i>Applied Physics Express</i> , 2017, 10, 013001. | 1.1 | 9 |
| 18 | Ferromagnetic resonance spectra of Py deposited on (Bi _{1-x} Sb _x) ₂ Te ₃ . <i>AIP Advances</i> , 2017, 7, . | 0.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electric-field-induced magnetization switching in CoFeB/MgO magnetic tunnel junctions. Japanese Journal of Applied Physics, 2017, 56, 0802A3. | 0.8 | 2 |
| 20 | Magnetization dynamics and its scattering mechanism in thin CoFeB films with interfacial anisotropy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3815-3820. | 3.3 | 50 |
| 21 | Electric-field effect on spin-wave resonance in a nanoscale CoFeB/MgO magnetic tunnel junction. Applied Physics Letters, 2017, 111, . | 1.5 | 16 |
| 22 | Magnetic and transport properties of Sb ₂ Te ₃ doped with high concentration of Cr. Applied Physics Express, 2017, 10, 103001. | 1.1 | 17 |
| 23 | 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 |
| 24 | 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 |
| 25 | Electric field control of Skyrmions in magnetic nanodisks. Applied Physics Letters, 2016, 108, . | 1.5 | 53 |
| 26 | Effect of electric-field modulation of magnetic parameters on domain structure in MgO/CoFeB. AIP Advances, 2016, 6, . | 0.6 | 27 |
| 27 | Electric-field-induced magnetization switching in CoFeB/MgO magnetic tunnel junctions with high junction resistance. Applied Physics Letters, 2016, 108, . | 1.5 | 84 |
| 28 | Electric-field induced nonlinear ferromagnetic resonance in a CoFeB/MgO magnetic tunnel junction. Applied Physics Letters, 2015, 107, . | 1.5 | 15 |
| 29 | 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 |
| 30 | Ferromagnetic resonance in nanoscale CoFeB/MgO magnetic tunnel junctions. Journal of Applied Physics, 2015, 117, 17B708. | 1.1 | 14 |
| 31 | Magnetic anisotropy in Ta/CoFeB/MgO investigated by x-ray magnetic circular dichroism and first-principles calculation. Applied Physics Letters, 2014, 105, . | 1.5 | 47 |
| 32 | Perpendicular-anisotropy CoFeB-MgO based magnetic tunnel junctions scaling down to 1X nm. , 2014, . | | 20 |
| 33 | Properties of magnetic tunnel junctions with a MgO/CoFeB/Ta/CoFeB/MgO recording structure down to junction diameter of 11nm. Applied Physics Letters, 2014, 105, . | 1.5 | 240 |
| 34 | Electric field-induced ferromagnetic resonance in a CoFeB/MgO magnetic tunnel junction under dc bias voltages. Applied Physics Letters, 2014, 105, . | 1.5 | 44 |
| 35 | Electric-field effects on magnetic anisotropy and damping constant in Ta/CoFeB/MgO investigated by ferromagnetic resonance. Applied Physics Letters, 2014, 105, . | 1.5 | 106 |
| 36 | Magnetization switching in a CoFeB/MgO magnetic tunnel junction by combining spin-transfer torque and electric field-effect. Applied Physics Letters, 2014, 104, . | 1.5 | 87 |

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|----|--|------|-----------|
| 37 | Electric Field-Induced Magnetization Switching in CoFeB-MgO Static Magnetic Field Angle Dependence. IEEE Transactions on Magnetics, 2014, 50, 1-3. | 1.2 | 2 |
| 38 | In-plane magnetic field dependence of electric field-induced magnetization switching. Applied Physics Letters, 2013, 103, . | 1.5 | 53 |
| 39 | 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 |
| 40 | RECENT PROGRESS OF PERPENDICULAR ANISOTROPY MAGNETIC TUNNEL JUNCTIONS FOR NONVOLATILE VLSI. Spin, 2012, 02, 1240003. | 0.6 | 63 |
| 41 | Electric field-induced magnetization reversal in a perpendicular-anisotropy CoFeB-MgO magnetic tunnel junction. Applied Physics Letters, 2012, 101, . | 1.5 | 341 |
| 42 | Observation of boron diffusion in an annealed Ta/CoFeB/MgO magnetic tunnel junction with standing-wave hard x-ray photoemission. Applied Physics Letters, 2012, 101, . | 1.5 | 64 |
| 43 | Magnetic Anisotropy Modulation in Ta/ CoFeB/ MgO Structure by Electric Fields. Journal of Physics: Conference Series, 2011, 266, 012092. | 0.3 | 9 |
| 44 | A perpendicular-anisotropy CoFeB/MgO magnetic tunnel junction. Nature Materials, 2010, 9, 721-724. | 13.3 | 3,020 |
| 45 | Electric-field effects on thickness dependent magnetic anisotropy of sputtered MgO/Co ₄₀ Fe ₄₀ B ₂₀ /Ta structures. Applied Physics Letters, 2010, 96, . | 1.5 | 443 |