

Hiroyuki Awano

List of Publications by Year in descending order

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Long spin coherence length and bulk-like spin-orbit torque in ferrimagnetic multilayers. Nature Materials, 2019, 18, 29-34. | 27.5 | 86 |
| 2 | Direct Observation of Domain Wall Motion Induced by Low-Current Density in TbFeCo Wires. Applied Physics Express, 2011, 4, 093002. | 2.4 | 62 |
| 3 | Mirror-symmetric Magneto-optical Kerr Rotation using Visible Light in [(GeTe) ₂ (Sb ₂ Te ₃) ₁] _n Topological Superlattices. Scientific Reports, 2014, 4, 5727. | 3.3 | 57 |
| 4 | Enhancement of spin Hall effect induced torques for current-driven magnetic domain wall motion: Inner interface effect. Physical Review B, 2016, 93, . | 3.2 | 35 |
| 5 | Current-Induced Domain Wall Motion in Perpendicular Magnetized Tb-Fe-Co Wire with Different Interface Structures. Applied Physics Express, 2012, 5, 125201. | 2.4 | 34 |
| 6 | Investigation of domain wall motion in RE-TM magnetic wire towards a current driven memory and logic. Journal of Magnetism and Magnetic Materials, 2015, 383, 50-55. | 2.3 | 30 |
| 7 | High efficiency of the spin-orbit torques induced domain wall motion in asymmetric interfacial multilayered Tb/Co wires. Journal of Applied Physics, 2015, 117, . | 2.5 | 19 |
| 8 | Reversal of Domain Wall Motion in Perpendicularly Magnetized TbFeCo-Based Wires: Size Dependence. Japanese Journal of Applied Physics, 2013, 52, 123001. | 1.5 | 16 |
| 9 | Domain wall motion in Tb/Co multilayer wires with a large domain wall depinning field. Journal of Applied Physics, 2014, 115, . | 2.5 | 16 |
| 10 | Large Inverse Spin Hall Effect in $\text{Co} - \text{Tb}$ Alloys due to Spin Seebeck Effect. Physical Review Applied, 2020, 14, . | 3.8 | 15 |
| 11 | Enhancement of spin orbit torques in a Tb-Co alloy magnetic wire by controlling its Tb composition. AIP Advances, 2017, 7, . | 1.3 | 14 |
| 12 | Current-induced domain wall motion in antiferromagnetically coupled structures: Fundamentals and applications. Journal of Science: Advanced Materials and Devices, 2018, 3, 389-398. | 3.1 | 14 |
| 13 | Modulation of domain wall dynamics in TbFeCo single layer nanowire. Journal of Applied Physics, 2012, 111, 083921. | 2.5 | 13 |
| 14 | Field- and Current-Induced Domain Wall Motion in Tb/Co Multilayers in the Presence of Spin-Orbit Coupling-Induced Torques. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 13 |
| 15 | Current-induced dynamics of bubble domains in perpendicularly magnetized TbFeCo wires. Applied Physics Express, 2015, 8, 073002. | 2.4 | 13 |
| 16 | Current-induced domain wall motion attributed to spin Hall effect and Dzyaloshinsky-Moriya interaction in Pt/GdFeCo (100 nm) magnetic wire. Japanese Journal of Applied Physics, 2016, 55, 07MC02. | 1.5 | 13 |
| 17 | Intermixing suppression through the interface in GeTe/Sb ₂ Te ₃ superlattice. Applied Physics Express, 2020, 13, 075503. | 2.4 | 13 |
| 18 | Magnetization-dependent inverse spin Hall effect in compensated ferrimagnet TbCo alloys. Physical Review B, 2021, 103, . | 3.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Interference induced enhancement of magneto-optical Kerr effect in ultrathin magnetic films. Scientific Reports, 2018, 8, 776. | 3.3 | 12 |
| 20 | Spin-orbit torque-driven current-induced domain wall motion in Gd-Fe magnetic wires. Japanese Journal of Applied Physics, 2019, 58, 030905. | 1.5 | 11 |
| 21 | Electric-current-induced dynamics of bubble domains in a ferrimagnetic Tb/Co multilayer wire below and above the magnetic compensation point. AIP Advances, 2017, 7, . | 1.3 | 10 |
| 22 | Observation of spin-motive force in ferrimagnetic GdFeCo alloy films. Applied Physics Letters, 2020, 116, . | 3.3 | 10 |
| 23 | Topologically protected spin diffusion and spin generator using chalcogenide superlattices. Npj 2D Materials and Applications, 2020, 4, . | 7.9 | 8 |
| 24 | Temperature dependence of magneto-optical Kerr signal in GeTe/Sb ₂ Te ₃ topological superlattice. AIP Advances, 2016, 6, . | 1.3 | 7 |
| 25 | Thermal reduction of the threshold current density for current-induced domain wall motion in Tb-Co magnetic alloy wire. AIP Advances, 2017, 7, . | 1.3 | 7 |
| 26 | CoB/Ni-Based Multilayer Nanowire with High-Speed Domain Wall Motion under Low Current Control. Japanese Journal of Applied Physics, 2012, 51, 093002. | 1.5 | 7 |
| 27 | Thermally Assisted Current-Induced Domain Wall Motion in Tb/Co Magnetic Multilayered Wire With a High Domain Wall Propagation Field. IEEE Transactions on Magnetics, 2017, 53, 1-3. | 2.1 | 6 |
| 28 | Multilayered current-induced domain wall motion in Pt/Tb-Co/Ta/Tb-Co/Pt magnetic wire. AIP Advances, 2018, 8, 025309. | 1.3 | 6 |
| 29 | CoB/Ni-Based Multilayer Nanowire with High-Speed Domain Wall Motion under Low Current Control. Japanese Journal of Applied Physics, 2012, 51, 093002. | 1.5 | 5 |
| 30 | Novel magnetic wire fabrication process by way of nanoimprint lithography for current induced magnetization switching. AIP Advances, 2017, 7, 055930. | 1.3 | 5 |
| 31 | Interference Induced Enhancement of Magneto-Optical Effect in Pt/TbCo Hetero-Structured Films. Crystals, 2018, 8, 377. | 2.2 | 3 |
| 32 | Stabilization of Néel-type domain walls in multilayered magnetic wires using antiferromagnetic interlayer exchange coupling. Journal of Applied Physics, 2020, 128, 063902. | 2.5 | 3 |
| 33 | Ultra-thin interfacial domain wall less than 1 nm based on Tb _x Co _{100-x} /Cu/[Co/Pt] ₂ heterostructures for multi-level magnetic pillar memory. AIP Advances, 2021, 11, . | 1.3 | 2 |
| 34 | Large enhancement of domain wall-induced anomalous magnetoresistance in ferrimagnetic Tb/Co wires: The effect of injecting spin Hall current. Current Applied Physics, 2020, 20, 262-265. | 2.4 | 1 |
| 35 | Laser induced spin injection to [GeTe/Sb ₂ Te ₃] superlattice through a TbFeCo film. AIP Advances, 2022, 12, 035328. | 1.3 | 0 |