

Sheng Jiang

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Impact of Random Grain Structure on Spin-Hall Nano-Oscillator Modal Stability. IEEE Electron Device Letters, 2022, 43, 312-315. | 2.2 | 5 |
| 2 | Observation of magnetic droplets in magnetic tunnel junctions. Science China: Physics, Mechanics and Astronomy, 2022, 65, . | 2.0 | 11 |
| 3 | Freezing and thawing magnetic droplet solitons. Nature Communications, 2022, 13, 2462. | 5.8 | 6 |
| 4 | Magnetism and spin transport at $\text{permalloy}/\text{Pt}/\text{Co}/\text{Pt}$ interfaces. Physical Review B, 2022, 105, . | 1.0 | 0 |
| 5 | Femtosecond laser driven precessing magnetic gratings. Nanoscale, 2021, 13, 3746-3756. | 2.8 | 9 |
| 6 | Impact of intragrain spin wave reflections on nanocontact spin torque oscillators. Physical Review B, 2021, 103, . | 1.1 | 6 |
| 7 | Reduced spin torque nano-oscillator linewidth using He + irradiation. Applied Physics Letters, 2020, 116, 072403. | 1.5 | 19 |
| 8 | Magnetodynamics in orthogonal nanocontact spin-torque nano-oscillators based on magnetic tunnel junctions. Applied Physics Letters, 2019, 115, . | 1.5 | 11 |
| 9 | Ab initio understanding of magnetic properties in Zn ²⁺ substitution of Fe ₃ O ₄ ultra-thin film with dilute Zn substitution. AIP Advances, 2018, 8, . | 0.6 | 4 |
| 10 | Investigation of magnetization dynamics damping in Ni ₈₀ Fe ₂₀ /Nd-Cu bilayer at room temperature. AIP Advances, 2018, 8, . | 0.6 | 5 |
| 11 | Anomalously large ferromagnetic resonance linewidth in the Gd/Cr/Fe film plane. Journal of Magnetism and Magnetic Materials, 2018, 451, 480-486. | 1.0 | 7 |
| 12 | Using Magnetic Droplet Nucleation to Determine the Spin Torque Efficiency and Asymmetry in $\text{Co}_x\text{Ni}_{1-x}$ Thin Films. Physical Review Applied, 2018, 10, . | 1.5 | 7 |
| 13 | Direct Observation of Zhang-Li Torque Expansion of Magnetic Droplet Solitons. Physical Review Letters, 2018, 120, 217204. | 2.9 | 27 |
| 14 | CMOS compatible W/CoFeB/MgO spin Hall nano-oscillators with wide frequency tunability. Applied Physics Letters, 2018, 112, . | 1.5 | 47 |
| 15 | Impact of the Oersted Field on Droplet Nucleation Boundaries. IEEE Magnetics Letters, 2018, 9, 1-4. | 0.6 | 8 |
| 16 | Tuning the magnetodynamic properties of all-perpendicular spin valves using He ⁺ irradiation. AIP Advances, 2018, 8, 065309. | 0.6 | 3 |
| 17 | Ferromagnetic resonance linewidth and two-magnon scattering in Fe _{1-x} Gd _x thin films. AIP Advances, 2017, 7, . | 0.6 | 22 |
| 18 | Influence of Cr layer thickness on the static and dynamic performances of Tb/Cr/Ni ₈₀ Fe ₂₀ structure. Journal of Alloys and Compounds, 2017, 695, 1324-1328. | 2.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Low operational current spin Hall nano-oscillators based on NiFe/W bilayers. Applied Physics Letters, 2016, 109, . | 1.5 | 54 |
| 20 | Selective tuning of magnetization dynamics damping in Tb- and Nd-doped permalloy ultrathin films by adjacent copper nanolayers. Journal of Alloys and Compounds, 2016, 672, 170-175. | 2.8 | 3 |
| 21 | The influence of interface on spin pumping effect in Ni ₈₀ Fe ₂₀ /Tb bilayer. AIP Advances, 2016, 6, 056120. | 0.6 | 12 |
| 22 | Planar Hall-Effect Bridge Sensor With NiFeX (X $\in [0, 1]$) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 627 Td (notatic Transactions on Magnetism, 2015, 51, 1-4. | 1.2 | 3 |
| 23 | Interface effects of the magnetic properties in Nd/Ni ₈₀ Fe ₂₀ bilayer films. Journal of Applied Physics, 2015, 117, 17A702. | 1.1 | 6 |
| 24 | Effect of spacer layer on the magnetization dynamics of permalloy/rare-earth/permalloy trilayers. Journal of Applied Physics, 2015, 117, 17D124. | 1.1 | 5 |
| 25 | The manipulation of magnetization damping in FeNi _{1-x} Ndx/Cu/FeCo _{1-y} Gdy sandwich structured multilayers. Journal of Applied Physics, 2015, 117, 17A716. | 1.1 | 1 |
| 26 | Selective Tuning of Gilbert Damping in Spin-Valve Trilayer by Insertion of Rare-Earth Nanolayers. ACS Applied Materials & Interfaces, 2015, 7, 17070-17075. | 4.0 | 22 |
| 27 | Influence of the interface on the magnetic properties of ferromagnetic ultrathin films with various adjacent copper thicknesses. Journal of Applied Physics, 2014, 115, 17C108. | 1.1 | 2 |
| 28 | Engineering Gilbert damping by dilute Gd doping in soft magnetic Fe thin films. Journal of Applied Physics, 2014, 115, 17A308. | 1.1 | 14 |