

Ezio Iacocca

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,102
citations

279487

23
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223531

46
g-index

54
all docs

54
docs citations

54
times ranked

1577
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Spin Torque-Generated Magnetic Droplet Solitons. <i>Science</i> , 2013, 339, 1295-1298. | 6.0 | 237 |
| 2 | Long-range mutual synchronization of spin Hall nano-oscillators. <i>Nature Physics</i> , 2017, 13, 292-299. | 6.5 | 221 |
| 3 | Advances in Magnetism Roadmap on Spin-Wave Computing. <i>IEEE Transactions on Magnetism</i> , 2022, 58, 1-72. | 1.2 | 179 |
| 4 | Dynamically stabilized magnetic skyrmions. <i>Nature Communications</i> , 2015, 6, 8193. | 5.8 | 173 |
| 5 | Spin-wave-beam driven synchronization of nanocontact spin-torque oscillators. <i>Nature Nanotechnology</i> , 2016, 11, 280-286. | 15.6 | 119 |
| 6 | Spin-Wave-Mode Coexistence on the Nanoscale: A Consequence of the Oersted-Field-Induced Asymmetric Energy Landscape. <i>Physical Review Letters</i> , 2013, 110, 257202. | 2.9 | 98 |
| 7 | CoFeB-Based Spin Hall Nano-Oscillators. <i>IEEE Magnetism Letters</i> , 2014, 5, 1-4. | 0.6 | 71 |
| 8 | Dynamic response of an artificial square spin ice. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 71 |
| 9 | Reconfigurable wave band structure of an artificial square ice. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 64 |
| 10 | Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. <i>Nature Communications</i> , 2019, 10, 1756. | 5.8 | 54 |
| 11 | Confined Dissipative Droplet Solitons in Spin-Valve Nanowires with Perpendicular Magnetic Anisotropy. <i>Physical Review Letters</i> , 2014, 112, 047201. | 2.9 | 53 |
| 12 | Dynamics of reconfigurable artificial spin ice: Toward magnonic functional materials. <i>APL Materials</i> , 2020, 8, . | 2.2 | 52 |
| 13 | Spin transfer torque generated magnetic droplet solitons (invited). <i>Journal of Applied Physics</i> , 2014, 115, . | 1.1 | 47 |
| 14 | Magnetic droplet nucleation boundary in orthogonal spin-torque nano-oscillators. <i>Nature Communications</i> , 2016, 7, 11209. | 5.8 | 46 |
| 15 | Oscillatory transient regime in the forced dynamics of a nonlinear auto oscillator. <i>Physical Review B</i> , 2010, 82, . | 1.1 | 42 |
| 16 | Frequency modulation of spin torque oscillator pairs. <i>Applied Physics Letters</i> , 2011, 98, 192501. | 1.5 | 41 |
| 17 | Magnetic droplet solitons in orthogonal nano-contact spin torque oscillators. <i>Physica B: Condensed Matter</i> , 2014, 435, 84-87. | 1.3 | 35 |
| 18 | Tailoring Spin-Wave Channels in a Reconfigurable Artificial Spin Ice. <i>Physical Review Applied</i> , 2020, 13, . | 1.5 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Breaking of Galilean Invariance in the Hydrodynamic Formulation of Ferromagnetic Thin Films. <i>Physical Review Letters</i> , 2017, 118, 017203. | 2.9 | 33 |
| 20 | Propagating spin waves excited by spin-transfer torque: A combined electrical and optical study. <i>Physical Review B</i> , 2015, 92, . | 1.1 | 32 |
| 21 | Generation linewidth of mode-hopping spin torque oscillators. <i>Physical Review B</i> , 2014, 89, . | 1.1 | 28 |
| 22 | Dependence of the colored frequency noise in spin torque oscillators on current and magnetic field. <i>Applied Physics Letters</i> , 2014, 104, 092405. | 1.5 | 28 |
| 23 | Topologically Nontrivial Magnon Bands in Artificial Square Spin Ices with Dzyaloshinskii-Moriya Interaction. <i>Physical Review Applied</i> , 2017, 8, . | 1.5 | 24 |
| 24 | Recent Advances in Nanocontact Spin-Torque Oscillators. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-7. | 1.2 | 21 |
| 25 | Mode-coupling mechanisms in nanocontact spin-torque oscillators. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 21 |
| 26 | Deterministic drift instability and stochastic thermal perturbations of magnetic dissipative droplet solitons. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 21 |
| 27 | Mode-hopping mechanism generating colored noise in a magnetic tunnel junction based spin torque oscillator. <i>Applied Physics Letters</i> , 2014, 105, 132404. | 1.5 | 20 |
| 28 | Parametric excitation in a magnetic tunnel junction-based spin torque oscillator. <i>Applied Physics Letters</i> , 2014, 104, . | 1.5 | 18 |
| 29 | Symmetry-broken dissipative exchange flows in thin-film ferromagnets with in-plane anisotropy. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 18 |
| 30 | Decoherence, Mode Hopping, and Mode Coupling in Spin Torque Oscillators. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 4398-4404. | 1.2 | 17 |
| 31 | A high-speed single sideband generator using a magnetic tunnel junction spin torque nano-oscillator. <i>Scientific Reports</i> , 2017, 7, 13422. | 1.6 | 17 |
| 32 | Domain wall dynamics in two-dimensional van der Waals ferromagnets. <i>Applied Physics Reviews</i> , 2021, 8, . | 5.5 | 16 |
| 33 | Analytical investigation of modulated spin-torque oscillators in the framework of coupled differential equations with variable coefficients. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 15 |
| 34 | Comprehensive and Macrospin-Based Magnetic Tunnel Junction Spin Torque Oscillator Model-Part I: Analytical Model of the MTJ STO. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 1037-1044. | 1.6 | 15 |
| 35 | Destabilization of serially connected spin-torque oscillators via non-Adlerian dynamics. <i>Journal of Applied Physics</i> , 2011, 110, 103910. | 1.1 | 14 |
| 36 | Comprehensive and Macrospin-Based Magnetic Tunnel Junction Spin Torque Oscillator Model- Part II: Verilog-A Model Implementation. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 1045-1051. | 1.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Homodyne-detected ferromagnetic resonance of in-plane magnetized nanocontacts: Composite spin-wave resonances and their excitation mechanism. <i>Physical Review B</i> , 2016, 93, . | 1.1 | 10 |
| 38 | Vortex-antivortex proliferation from an obstacle in thin film ferromagnets. <i>Physical Review B</i> , 2017, 95, . | 1.1 | 10 |
| 39 | Hydrodynamic description of long-distance spin transport through noncollinear magnetization states: Role of dispersion, nonlinearity, and damping. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 10 |
| 40 | Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. <i>Science Advances</i> , 2022, 8, eabn0523. | 4.7 | 10 |
| 41 | Perspectives on spin hydrodynamics in ferromagnetic materials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125858. | 0.9 | 8 |
| 42 | Modulation-mediated unlocking of a parametrically phase-locked spin torque oscillator. <i>Applied Physics Letters</i> , 2014, 105, 252404. | 1.5 | 7 |
| 43 | Tunable Mode Coupling in Nanocontact Spin-Torque Oscillators. <i>Physical Review Applied</i> , 2017, 8, . | 1.5 | 7 |
| 44 | Anisotropic MagnetoMemristance. <i>Communications Physics</i> , 2022, 5, . | 2.0 | 7 |
| 45 | Magnonic Band Structure Established by Chiral Spin-Density Waves in Thin-Film Ferromagnets. <i>IEEE Magnetics Letters</i> , 2019, 10, 1-5. | 0.6 | 6 |
| 46 | Resonant excitation of injection-locked spin-torque oscillators. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 5 |
| 47 | Effect of Excitation Fatigue on the Synchronization of Multiple Nanocontact Spin-Torque Oscillators. <i>IEEE Magnetics Letters</i> , 2014, 5, 1-4. | 0.6 | 5 |
| 48 | Controllable vortex shedding from dissipative exchange flows in ferromagnetic channels. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 4 |
| 49 | Transverse instabilities of stripe domains in magnetic thin films with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2018, 97, . | 1.1 | 2 |
| 50 | Spin-piston problem for a ferromagnetic thin film: Shock waves and solitons. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 2 |
| 51 | Spin-Injection-Generated Shock Waves and Solitons in a Ferromagnetic Thin Film. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-5. | 1.2 | 1 |