

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
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54
all docs

54
docs citations

54
times ranked

1577
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-Injection-Generated Shock Waves and Solitons in a Ferromagnetic Thin Film. IEEE Transactions on Magnetism, 2022, 58, 1-5.	1.2	1
2	Advances in Magnetism Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetism, 2022, 58, 1-72.	1.2	179
3	Spin-piston problem for a ferromagnetic thin film: Shock waves and solitons. Physical Review B, 2022, 105, .	1.1	2
4	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. Science Advances, 2022, 8, eabn0523.	4.7	10
5	Anisotropic MagnetoMemristance. Communications Physics, 2022, 5, .	2.0	7
6	Domain wall dynamics in two-dimensional van der Waals ferromagnets. Applied Physics Reviews, 2021, 8, .	5.5	16
7	Controllable vortex shedding from dissipative exchange flows in ferromagnetic channels. Physical Review B, 2020, 102, .	1.1	4
8	Tailoring Spin-Wave Channels in a Reconfigurable Artificial Spin Ice. Physical Review Applied, 2020, 13, .	1.5	34
9	Dynamics of reconfigurable artificial spin ice: Toward magnonic functional materials. APL Materials, 2020, 8, .	2.2	52
10	Perspectives on spin hydrodynamics in ferromagnetic materials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125858.	0.9	8
11	Magnonic Band Structure Established by Chiral Spin-Density Waves in Thin-Film Ferromagnets. IEEE Magnetism Letters, 2019, 10, 1-5.	0.6	6
12	Hydrodynamic description of long-distance spin transport through noncollinear magnetization states: Role of dispersion, nonlinearity, and damping. Physical Review B, 2019, 99, .	1.1	10
13	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	5.8	54
14	Transverse instabilities of stripe domains in magnetic thin films with perpendicular magnetic anisotropy. Physical Review B, 2018, 97, .	1.1	2
15	Breaking of Galilean Invariance in the Hydrodynamic Formulation of Ferromagnetic Thin Films. Physical Review Letters, 2017, 118, 017203.	2.9	33
16	Topologically Nontrivial Magnon Bands in Artificial Square Spin Ices with Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2017, 8, .	1.5	24
17	Tunable Mode Coupling in Nanocontact Spin-Torque Oscillators. Physical Review Applied, 2017, 8, .	1.5	7
18	Vortex-antivortex proliferation from an obstacle in thin film ferromagnets. Physical Review B, 2017, 95, .	1.1	10

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19	A high-speed single sideband generator using a magnetic tunnel junction spin torque nano-oscillator. Scientific Reports, 2017, 7, 13422.	1.6	17
20	Symmetry-broken dissipative exchange flows in thin-film ferromagnets with in-plane anisotropy. Physical Review B, 2017, 96, .	1.1	18
21	Long-range mutual synchronization of spin Hall nano-oscillators. Nature Physics, 2017, 13, 292-299.	6.5	221
22	Magnetic droplet nucleation boundary in orthogonal spin-torque nano-oscillators. Nature Communications, 2016, 7, 11209.	5.8	46
23	Dynamic response of an artificial square spin ice. Physical Review B, 2016, 93, .	1.1	71
24	Homodyne-detected ferromagnetic resonance of in-plane magnetized nanocontacts: Composite spin-wave resonances and their excitation mechanism. Physical Review B, 2016, 93, .	1.1	10
25	Deterministic drift instability and stochastic thermal perturbations of magnetic dissipative droplet solitons. Physical Review B, 2016, 93, .	1.1	21
26	Reconfigurable wave band structure of an artificial square ice. Physical Review B, 2016, 93, .	1.1	64
27	Spin-wave-beam driven synchronization of nanocontact spin-torque oscillators. Nature Nanotechnology, 2016, 11, 280-286.	15.6	119
28	Propagating spin waves excited by spin-transfer torque: A combined electrical and optical study. Physical Review B, 2015, 92, .	1.1	32
29	Mode-coupling mechanisms in nanocontact spin-torque oscillators. Physical Review B, 2015, 91, .	1.1	21
30	Comprehensive and Macrospin-Based Magnetic Tunnel Junction Spin Torque Oscillator Model- Part II: Verilog-A Model Implementation. IEEE Transactions on Electron Devices, 2015, 62, 1045-1051.	1.6	11
31	Comprehensive and Macrospin-Based Magnetic Tunnel Junction Spin Torque Oscillator Model-Part I: Analytical Model of the MTJ STO. IEEE Transactions on Electron Devices, 2015, 62, 1037-1044.	1.6	15
32	Dynamically stabilized magnetic skyrmions. Nature Communications, 2015, 6, 8193.	5.8	173
33	Effect of Excitation Fatigue on the Synchronization of Multiple Nanocontact Spin-Torque Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	5
34	Mode-hopping mechanism generating colored noise in a magnetic tunnel junction based spin torque oscillator. Applied Physics Letters, 2014, 105, 132404.	1.5	20
35	Modulation-mediated unlocking of a parametrically phase-locked spin torque oscillator. Applied Physics Letters, 2014, 105, 252404.	1.5	7
36	CoFeB-Based Spin Hall Nano-Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	71

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37	Parametric excitation in a magnetic tunnel junction-based spin torque oscillator. Applied Physics Letters, 2014, 104, .	1.5	18
38	Spin transfer torque generated magnetic droplet solitons (invited). Journal of Applied Physics, 2014, 115, .	1.1	47
39	Magnetic droplet solitons in orthogonal nano-contact spin torque oscillators. Physica B: Condensed Matter, 2014, 435, 84-87.	1.3	35
40	Confined Dissipative Droplet Solitons in Spin-Valve Nanowires with Perpendicular Magnetic Anisotropy. Physical Review Letters, 2014, 112, 047201.	2.9	53
41	Generation linewidth of mode-hopping spin torque oscillators. Physical Review B, 2014, 89, .	1.1	28
42	Dependence of the colored frequency noise in spin torque oscillators on current and magnetic field. Applied Physics Letters, 2014, 104, 092405.	1.5	28
43	Recent Advances in Nanocontact Spin-Torque Oscillators. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	21
44	Decoherence, Mode Hopping, and Mode Coupling in Spin Torque Oscillators. IEEE Transactions on Magnetics, 2013, 49, 4398-4404.	1.2	17
45	Spin Torque-Generated Magnetic Droplet Solitons. Science, 2013, 339, 1295-1298.	6.0	237
46	Resonant excitation of injection-locked spin-torque oscillators. Physical Review B, 2013, 87, .	1.1	5
47	Spin-Wave-Mode Coexistence on the Nanoscale: A Consequence of the Oersted-Field-Induced Asymmetric Energy Landscape. Physical Review Letters, 2013, 110, 257202.	2.9	98
48	Analytical investigation of modulated spin-torque oscillators in the framework of coupled differential equations with variable coefficients. Physical Review B, 2012, 85, .	1.1	15
49	Frequency modulation of spin torque oscillator pairs. Applied Physics Letters, 2011, 98, 192501.	1.5	41
50	Destabilization of serially connected spin-torque oscillators via non-Adlerian dynamics. Journal of Applied Physics, 2011, 110, 103910.	1.1	14
51	Oscillatory transient regime in the forced dynamics of a nonlinear auto oscillator. Physical Review B, 2010, 82, .	1.1	42