

Stefano Bonetti

List of Publications by Year in descending order

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73
papers

3,376
citations

159585

30
h-index

138484

58
g-index

74
all docs

74
docs citations

74
times ranked

3188
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of a propagating spin wave induced by spin-transfer torque. Nature Nanotechnology, 2011, 6, 635-638.	31.5	321
2	Spin Torque-Generated Magnetic Droplet Solitons. Science, 2013, 339, 1295-1298.	12.6	237
3	Designer Magnetoplasmonics with Nickel Nanoferrromagnets. Nano Letters, 2011, 11, 5333-5338.	9.1	203
4	Experimental Evidence of Self-Localized and Propagating Spin Wave Modes in Obliquely Magnetized Current-Driven Nanocontacts. Physical Review Letters, 2010, 105, 217204.	7.8	176
5	Plasmonic Nickel Nanoantennas. Small, 2011, 7, 2341-2347.	10.0	175
6	Spin torque oscillator frequency versus magnetic field angle: The prospect of operation beyond 65 GHz. Applied Physics Letters, 2009, 94, .	3.3	158
7	Matter manipulation with extreme terahertz light: Progress in the enabling THz technology. Physics Reports, 2019, 836-837, 1-74.	25.6	147
8	Terahertz-driven phonon upconversion in SrTiO ₃ . Nature Physics, 2019, 15, 387-392.	16.7	128
9	Tuning the Magneto-Optical Response of Nanosize Ferromagnetic Ni Disks Using the Phase of Localized Plasmons. Physical Review Letters, 2013, 111, 167401.	7.8	111
10	Spin-torque oscillator with tilted fixed layer magnetization. Applied Physics Letters, 2008, 92, .	3.3	102
11	Spin-Wave-Mode Coexistence on the Nanoscale: A Consequence of the Oersted-Field-Induced Asymmetric Energy Landscape. Physical Review Letters, 2013, 110, 257202.	7.8	98
12	Nonlinear frequency and amplitude modulation of a nanocontact-based spin-torque oscillator. Physical Review B, 2010, 81, .	3.2	89
13	THz-Driven Ultrafast Spin-Lattice Scattering in Amorphous Metallic Ferromagnets. Physical Review Letters, 2016, 117, 087205.	7.8	83
14	Inertial spin dynamics in ferromagnets. Nature Physics, 2021, 17, 245-250.	16.7	78
15	Zero-field precession and hysteretic threshold currents in a spin torque nano device with tilted polarizer. New Journal of Physics, 2009, 11, 103028.	2.9	62
16	Tunable intrinsic phase of a spin torque oscillator. Applied Physics Letters, 2008, 92, .	3.3	60
17	Direct Observation of a Localized Magnetic Soliton in a Spin-Transfer Nanocontact. Physical Review Letters, 2015, 115, 127205.	7.8	56
18	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	12.8	54

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19	Direct observation and imaging of a spin-wave soliton with p-like symmetry. Nature Communications, 2015, 6, 8889.	12.8	52
20	Power and linewidth of propagating and localized modes in nanocontact spin-torque oscillators. Physical Review B, 2012, 85, .	3.2	49
21	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, .	3.2	49
22	Pseudo spin valves based on L10 (111)-oriented FePt fixed layers with tilted anisotropy. Applied Physics Letters, 2009, 94, 163108.	3.3	48
23	Generation mechanism of terahertz coherent acoustic phonons in Fe. Physical Review B, 2016, 93, .	3.2	48
24	Microwave generation of tilted-polarizer spin torque oscillator. Journal of Applied Physics, 2009, 105, 07D116.	2.5	45
25	Spin-torque oscillator linewidth narrowing under current modulation. Applied Physics Letters, 2011, 98, 192506.	3.3	42
26	Frequency modulation of spin torque oscillator pairs. Applied Physics Letters, 2011, 98, 192501.	3.3	41
27	Microwave soft x-ray microscopy for nanoscale magnetization dynamics in the 5–10 GHz frequency range. Review of Scientific Instruments, 2015, 86, 093703.	1.3	38
28	X-ray Detection of Transient Magnetic Moments Induced by a Spin Current in Cu. Physical Review Letters, 2015, 115, 096601.	7.8	38
29	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. Optics Express, 2013, 21, 9875.	3.4	34
30	First-order reversal curve analysis of graded anisotropy FePtCu films. Applied Physics Letters, 2010, 97, 202501.	3.3	32
31	Selective THz control of magnetic order: new opportunities from superradiant undulator sources. Journal Physics D: Applied Physics, 2018, 51, 114007.	2.8	30
32	Dependence of the colored frequency noise in spin torque oscillators on current and magnetic field. Applied Physics Letters, 2014, 104, 092405.	3.3	28
33	Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. Physical Review Letters, 2019, 123, 197204.	7.8	26
34	Magnetic coupling at rare earth ferromagnet/transition metal ferromagnet interfaces: A comprehensive study of Gd/Ni. Scientific Reports, 2016, 6, 30092.	3.3	24
35	Pseudo-spin-valve with L10 (111)-oriented FePt fixed layer. Journal of Applied Physics, 2009, 105, 07E910.	2.5	23
36	Effects of a non-absorbing substrate on the magneto-optical Kerr response of plasmonic ferromagnetic nanodisks. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1067-1075.	1.8	23

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37	Local terahertz field enhancement for time-resolved x-ray diffraction. Applied Physics Letters, 2017, 110, .	3.3	21
38	THz-driven demagnetization with perpendicular magnetic anisotropy: towards ultrafast ballistic switching. Journal Physics D: Applied Physics, 2018, 51, 084001.	2.8	21
39	Dynamically induced magnetism in KTaO_3 . Physical Review Research, 2021, 3, .	2.1	21
40	X-ray imaging of spin currents and magnetisation dynamics at the nanoscale. Journal of Physics Condensed Matter, 2017, 29, 133004.	1.8	20
41	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. Physical Review Letters, 2018, 121, 137403.	7.8	20
42	Magnetization switching in the inertial regime. Physical Review B, 2022, 105, .	3.2	20
43	Capacitance Enhanced Synchronization of Pairs of Spin-Transfer Oscillators. IEEE Transactions on Magnetism, 2009, 45, 2421-2423.	2.1	19
44	Nano-Contact Spin-Torque Oscillators as Magnonic Building Blocks. Topics in Applied Physics, 2013, , 177-187.	0.8	19
45	Low field driven latching-type $\text{Bi}_3\text{Fe}_5\text{O}_{12}\hat{\cdot}\text{Gd}_3\text{Ga}_5\text{O}_{12}$ magneto-optical display. Applied Physics Letters, 2006, 88, 242504.	3.3	18
46	Non-stationary excitation of two localized spin-wave modes in a nano-contact spin torque oscillator. Journal of Applied Physics, 2013, 114, 153906.	2.5	16
47	Nanoscale Transient Magnetization Gratings Created and Probed by Femtosecond Extreme Ultraviolet Pulses. Nano Letters, 2021, 21, 2905-2911.	9.1	16
48	Ultrafast Amplification and Nonlinear Magnetoelastic Coupling of Coherent Magnon Modes in an Antiferromagnet. Physical Review Letters, 2021, 127, 077202.	7.8	16
49	Generation and detection of 50 GHz surface acoustic waves by extreme ultraviolet pulses. Applied Physics Letters, 2021, 119, .	3.3	15
50	The combination of micro-resonators with spatially resolved ferromagnetic resonance. Review of Scientific Instruments, 2017, 88, 093703.	1.3	13
51	Anisotropic X-Ray Scattering of Transiently Oriented Water. Physical Review Letters, 2020, 125, 076002.	7.8	13
52	Terahertz magnetic field enhancement in an asymmetric spiral metamaterial. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 224001.	1.5	12
53	NTMpy: An open source package for solving coupled parabolic differential equations in the framework of the three-temperature model. Computer Physics Communications, 2021, 265, 107990.	7.5	10
54	Optical Frequency Up-Conversion of the Ferromagnetic Resonance in an Ultrathin Garnet Mediated by Magnetoelastic Coupling. Physical Review Letters, 2021, 127, 077203.	7.8	10

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55	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. Science Advances, 2022, 8, eabn0523.	10.3	10
56	Spin-Torque Oscillator in an Electromagnet Package. IEEE Transactions on Magnetics, 2012, 48, 4378-4381.	2.1	9
57	Anisotropic ultrafast spin dynamics in epitaxial cobalt. Applied Physics Letters, 2021, 118, .	3.3	9
58	Stimulated resonant inelastic X-ray scattering in a solid. Communications Physics, 2022, 5, .	5.3	9
59	Anti-reflection coating design for metallic terahertz meta-materials. Optics Express, 2018, 26, 2917.	3.4	8
60	State-resolved ultrafast charge and spin dynamics in [Co/Pd] multilayers. Applied Physics Letters, 2022, 120, .	3.3	8
61	Ultrafast electron dynamics in platinum and gold thin films driven by optical and terahertz fields. Applied Physics Letters, 2022, 120, .	3.3	7
62	Terahertz charge and spin transport in metallic ferromagnets: The role of crystalline and magnetic order. Applied Physics Letters, 2022, 120, .	3.3	4
63	Analysis in k -Space of Magnetization Dynamics Driven by Strong Terahertz Fields. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	2
64	A UHV MOKE magnetometer complementing XMCD-PEEM at the Elettra Synchrotron. Journal of Synchrotron Radiation, 2021, 28, 995-1005.	2.4	1
65	Buried Tantalate-Niobate Microwave Varactors. , 2006, , .		0
66	FORC studies of exchange biased NiFe in L_{10} (111) FePt-based spin valve. Journal of Physics: Conference Series, 2010, 200, 072002.	0.4	0
67	THz light source at SLAC FACET user facility. , 2014, , .		0
68	THz-driven ultrafast spin-lattice scattering. , 2016, , .		0
69	Terahertz-driven phonon dynamics probed by ultrafast X-ray pulses. , 2017, , .		0
70	A THz View on Magnetization Dynamics: Opportunities from the THz userfacility TELBE. , 2019, , .		0
71	Direct observation of lattice motion driven by strong THz pulses. , 2016, , .		0
72	Anti-reflection coating design for metallic terahertz meta-materials. , 2018, , .		0

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73	Volt-per-Å...ngstrom terahertz fields from X-ray free-electron lasers. Journal of Synchrotron Radiation, 2020, 27, 796-798.	2.4	0