

# 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	Ultrafast electron dynamics in platinum and gold thin films driven by optical and terahertz fields. Applied Physics Letters, 2022, 120, .	3.3	7
2	State-resolved ultrafast charge and spin dynamics in [Co/Pd] multilayers. Applied Physics Letters, 2022, 120, .	3.3	8
3	Magnetization switching in the inertial regime. Physical Review B, 2022, 105, .	3.2	20
4	Terahertz charge and spin transport in metallic ferromagnets: The role of crystalline and magnetic order. Applied Physics Letters, 2022, 120, .	3.3	4
5	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. Science Advances, 2022, 8, eabn0523.	10.3	10
6	Stimulated resonant inelastic X-ray scattering in a solid. Communications Physics, 2022, 5, .	5.3	9
7	Inertial spin dynamics in ferromagnets. Nature Physics, 2021, 17, 245-250.	16.7	78
8	Analysis in $k$ -Space of Magnetization Dynamics Driven by Strong Terahertz Fields. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	2
9	Nanoscale Transient Magnetization Gratings Created and Probed by Femtosecond Extreme Ultraviolet Pulses. Nano Letters, 2021, 21, 2905-2911.	9.1	16
10	A UHV MOKE magnetometer complementing XMCD-PEEM at the Elettra Synchrotron. Journal of Synchrotron Radiation, 2021, 28, 995-1005.	2.4	1
11	Dynamically induced magnetism in $\text{KTaO}_3$ . Physical Review Research, 2021, 3, .	2.1	2
12	Anisotropic ultrafast spin dynamics in epitaxial cobalt. Applied Physics Letters, 2021, 118, .	3.3	9
13	Generation and detection of 50 GHz surface acoustic waves by extreme ultraviolet pulses. Applied Physics Letters, 2021, 119, .	3.3	15
14	Ultrafast Amplification and Nonlinear Magnetoelastic Coupling of Coherent Magnon Modes in an Antiferromagnet. Physical Review Letters, 2021, 127, 077202.	7.8	16
15	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
16	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
17	Anisotropic X-Ray Scattering of Transiently Oriented Water. Physical Review Letters, 2020, 125, 076002.	7.8	13
18	Volt-per-Ångstrom terahertz fields from X-ray free-electron lasers. Journal of Synchrotron Radiation, 2020, 27, 796-798.	2.4	0

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19	Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. <i>Physical Review Letters</i> , 2019, 123, 197204.	7.8	26
20	Matter manipulation with extreme terahertz light: Progress in the enabling THz technology. <i>Physics Reports</i> , 2019, 836-837, 1-74.	25.6	147
21	Terahertz-driven phonon upconversion in SrTiO <sub>3</sub> . <i>Nature Physics</i> , 2019, 15, 387-392.	16.7	128
22	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. <i>Nature Communications</i> , 2019, 10, 1756.	12.8	54
23	A THz View on Magnetization Dynamics: Opportunities from the THz userfacility TELBE. , 2019, , .		0
24	Selective THz control of magnetic order: new opportunities from superradiant undulator sources. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 114007.	2.8	30
25	THz-driven demagnetization with perpendicular magnetic anisotropy: towards ultrafast ballistic switching. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 084001.	2.8	21
26	Terahertz magnetic field enhancement in an asymmetric spiral metamaterial. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 224001.	1.5	12
27	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. <i>Physical Review Letters</i> , 2018, 121, 137403.	7.8	20
28	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , 2018, 98, .	3.2	49
29	Anti-reflection coating design for metallic terahertz meta-materials. <i>Optics Express</i> , 2018, 26, 2917.	3.4	8
30	Anti-reflection coating design for metallic terahertz meta-materials. , 2018, , .		0
31	X-ray imaging of spin currents and magnetisation dynamics at the nanoscale. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 133004.	1.8	20
32	Local terahertz field enhancement for time-resolved x-ray diffraction. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	21
33	The combination of micro-resonators with spatially resolved ferromagnetic resonance. <i>Review of Scientific Instruments</i> , 2017, 88, 093703.	1.3	13
34	Terahertz-driven phonon dynamics probed by ultrafast X-ray pulses. , 2017, , .		0
35	THz-driven ultrafast spin-lattice scattering. , 2016, , .		0
36	THz-Driven Ultrafast Spin-Lattice Scattering in Amorphous Metallic Ferromagnets. <i>Physical Review Letters</i> , 2016, 117, 087205.	7.8	83

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37	Generation mechanism of terahertz coherent acoustic phonons in Fe. <i>Physical Review B</i> , 2016, 93, .	3.2	48
38	Magnetic coupling at rare earth ferromagnet/transition metal ferromagnet interfaces: A comprehensive study of Gd/Ni. <i>Scientific Reports</i> , 2016, 6, 30092.	3.3	24
39	Direct observation of lattice motion driven by strong THz pulses. , 2016, , .		0
40	Microwave soft x-ray microscopy for nanoscale magnetization dynamics in the 5â€“10 GHz frequency range. <i>Review of Scientific Instruments</i> , 2015, 86, 093703.	1.3	38
41	X-ray Detection of Transient Magnetic Moments Induced by a Spin Current in Cu. <i>Physical Review Letters</i> , 2015, 115, 096601.	7.8	38
42	Direct Observation of a Localized Magnetic Soliton in a Spin-Transfer Nanocontact. <i>Physical Review Letters</i> , 2015, 115, 127205.	7.8	56
43	Direct observation and imaging of a spin-wave soliton with p-like symmetry. <i>Nature Communications</i> , 2015, 6, 8889.	12.8	52
44	Effects of a nonâ€“absorbing substrate on the magnetoâ€“optical Kerr response of plasmonic ferromagnetic nanodisks. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1067-1075.	1.8	23
45	Dependence of the colored frequency noise in spin torque oscillators on current and magnetic field. <i>Applied Physics Letters</i> , 2014, 104, 092405.	3.3	28
46	THz light source at SLAC FACET user facility. , 2014, , .		0
47	Tuning the Magneto-Optical Response of Nanosize Ferromagnetic Ni Disks Using the Phase of Localized Plasmons. <i>Physical Review Letters</i> , 2013, 111, 167401.	7.8	111
48	Nano-Contact Spin-Torque Oscillators as Magnonic Building Blocks. <i>Topics in Applied Physics</i> , 2013, , 177-187.	0.8	19
49	Spin Torqueâ€“Generated Magnetic Droplet Solitons. <i>Science</i> , 2013, 339, 1295-1298.	12.6	237
50	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. <i>Optics Express</i> , 2013, 21, 9875.	3.4	34
51	Non-stationary excitation of two localized spin-wave modes in a nano-contact spin torque oscillator. <i>Journal of Applied Physics</i> , 2013, 114, 153906.	2.5	16
52	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.	7.8	98
53	Spin-Torque Oscillator in an Electromagnet Package. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 4378-4381.	2.1	9
54	Power and linewidth of propagating and localized modes in nanocontact spin-torque oscillators. <i>Physical Review B</i> , 2012, 85, .	3.2	49

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55	Frequency modulation of spin torque oscillator pairs. Applied Physics Letters, 2011, 98, 192501.	3.3	41
56	Designer Magnetoplasmonics with Nickel Nanoferrromagnets. Nano Letters, 2011, 11, 5333-5338.	9.1	203
57	Direct observation of a propagating spin wave induced by spin-transfer torque. Nature Nanotechnology, 2011, 6, 635-638.	31.5	321
58	Plasmonic Nickel Nanoantennas. Small, 2011, 7, 2341-2347.	10.0	175
59	Spin-torque oscillator linewidth narrowing under current modulation. Applied Physics Letters, 2011, 98, 192506.	3.3	42
60	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
61	Nonlinear frequency and amplitude modulation of a nanocontact-based spin-torque oscillator. Physical Review B, 2010, 81, .	3.2	89
62	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
63	First-order reversal curve analysis of graded anisotropy FePtCu films. Applied Physics Letters, 2010, 97, 202501.	3.3	32
64	Spin torque oscillator frequency versus magnetic field angle: The prospect of operation beyond 65 GHz. Applied Physics Letters, 2009, 94, .	3.3	158
65	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
66	Pseudo-spin-valve with $L_{10}$ (111)-oriented FePt fixed layer. Journal of Applied Physics, 2009, 105, 07E910.	2.5	23
67	Capacitance Enhanced Synchronization of Pairs of Spin-Transfer Oscillators. IEEE Transactions on Magnetism, 2009, 45, 2421-2423.	2.1	19
68	Pseudo spin valves based on $L_{10}$ (111)-oriented FePt fixed layers with tilted anisotropy. Applied Physics Letters, 2009, 94, 163108.	3.3	48
69	Microwave generation of tilted-polarizer spin torque oscillator. Journal of Applied Physics, 2009, 105, 07D116.	2.5	45
70	Spin-torque oscillator with tilted fixed layer magnetization. Applied Physics Letters, 2008, 92, .	3.3	102
71	Tunable intrinsic phase of a spin torque oscillator. Applied Physics Letters, 2008, 92, .	3.3	60
72	Buried Tantalate-Niobate Microwave Varactors. , 2006, , .		0

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73	Low field driven latching-type $\text{Bi}_3\text{Fe}_5\text{O}_{12}\hat{\wedge}\text{Gd}_3\text{Ga}_5\text{O}_{12}$ magneto-optical display. Applied Physics Letters, 2006, 88, 242504.	3.3	18