

A S Jenkins

List of Publications by Year in descending order

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papers

672
citations

566801

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all docs

30
docs citations

30
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. Nature Communications, 2017, 8, 15825.	5.8	85
2	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. Nature Nanotechnology, 2016, 11, 360-364.	15.6	75
3	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. Physical Review Letters, 2015, 115, 017201.	2.9	50
4	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. Scientific Reports, 2016, 6, 26849.	1.6	40
5	Spin torque nano-oscillator driven by combined spin injection from tunneling and spin Hall current. Communications Physics, 2019, 2, .	2.0	38
6	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. Applied Physics Letters, 2014, 105, .	1.5	35
7	High power and low critical current density spin transfer torque nano-oscillators using MgO barriers with intermediate thickness. Scientific Reports, 2017, 7, 7237.	1.6	35
8	Modulation bandwidth of spin torque oscillators under current modulation. Applied Physics Letters, 2014, 105, 152401.	1.5	34
9	Ultrafast Sweep-Tuned Spectrum Analyzer with Temporal Resolution Based on a Spin-Torque Nano-Oscillator. Nano Letters, 2020, 20, 6104-6111.	4.5	34
10	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	1.5	28
11	Broadband voltage rectifier induced by linear bias dependence in CoFeB/MgO magnetic tunnel junctions. Applied Physics Letters, 2018, 112, .	1.5	28
12	Detection of the Microwave Emission from a Spin-Torque Oscillator by a Spin Diode. Physical Review Applied, 2020, 13, .	1.5	24
13	Influence of thermal fluctuations on the emission linewidth in MgO-based spin transfer oscillators. Applied Physics Letters, 2012, 101, 062407.	1.5	20
14	LAO-NCS: Laser Assisted Spin Torque Nano Oscillator-Based Neuromorphic Computing System. Frontiers in Neuroscience, 2019, 13, 1429.	1.4	20
15	Hardware realization of the multiply and accumulate operation on radio-frequency signals with magnetic tunnel junctions. Neuromorphic Computing and Engineering, 2021, 1, 011001.	2.8	19
16	Nanoscale true random bit generator based on magnetic state transitions in magnetic tunnel junctions. Scientific Reports, 2019, 9, 15661.	1.6	13
17	Digital and analogue modulation and demodulation scheme using vortex-based spin torque nano-oscillators. Scientific Reports, 2020, 10, 11181.	1.6	12
18	Spin transfer driven resonant expulsion of a magnetic vortex core for efficient rf detector. AIP Advances, 2017, 7, .	0.6	11

#	ARTICLE	IF	CITATIONS
19	Analog and Digital Phase Modulation and Signal Transmission with Spin-Torque Nano-Oscillators. Physical Review Applied, 2021, 16, .	1.5	11
20	Non-volatile artificial synapse based on a vortex nano-oscillator. Scientific Reports, 2021, 11, 16094.	1.6	11
21	Spintronic nano-oscillators: Towards nanoscale and tunable frequency devices. , 2014, , .		9
22	Verilog-A-Based Analytical Modeling of Vortex Spin-Torque Nano Oscillator. IEEE Transactions on Electron Devices, 2022, 69, 4651-4658.	1.6	9
23	Wideband High-Resolution Frequency-to-Resistance Converter Based on Nonhomogeneous Magnetic-State Transitions. Physical Review Applied, 2020, 13, .	1.5	8
24	Phase variation in the locked state of mutually synchronized spin torque nano-oscillators. Applied Physics Letters, 2021, 118, 172406.	1.5	6
25	Electrical characterisation of higher order spin wave modes in vortex-based magnetic tunnel junctions. Communications Physics, 2021, 4, .	2.0	6
26	Current driven magnetization dynamics of a self-polarised synthetic ferrimagnet. Journal of Applied Physics, 2014, 115, 083911.	1.1	5
27	Influence of MgO Tunnel Barrier Thickness on the Output Power of Three-Terminal Spin Hall Nano-Oscillators. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	4
28	Spin-Torque-Nano-Oscillator based neuromorphic computing assisted by laser. , 2019, , .		1
29	Radio Receivers based on Spin-Torque Diodes as Energy Detectors. , 2021, , .		1
30	Spintronic Wireless Sensor Networks. IEEE Transactions on Magnetics, 2022, 58, 1-3.	1.2	0