

Afshin Houshang

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,322
citations

471061

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500791

28
g-index

29
all docs

29
docs citations

29
times ranked

1167
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-Torque and Spin-Hall Nano-Oscillators. Proceedings of the IEEE, 2016, 104, 1919-1945.	16.4	276
2	Long-range mutual synchronization of spin Hall nano-oscillators. Nature Physics, 2017, 13, 292-299.	6.5	221
3	Spin-wave-beam driven synchronization of nanocontact spin-torque oscillators. Nature Nanotechnology, 2016, 11, 280-286.	15.6	119
4	CoFeB-Based Spin Hall Nano-Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	71
5	A single layer spin-orbit torque nano-oscillator. Nature Communications, 2019, 10, 2362.	5.8	66
6	Memristive control of mutual spin Hall nano-oscillator synchronization for neuromorphic computing. Nature Materials, 2022, 21, 81-87.	13.3	63
7	Tunable permalloy-based films for magnonic devices. Physical Review B, 2015, 92, .	1.1	61
8	A 20 nm spin Hall nano-oscillator. Nanoscale, 2017, 9, 1285-1291.	2.8	55
9	Low operational current spin Hall nano-oscillators based on NiFe/W bilayers. Applied Physics Letters, 2016, 109, .	1.5	54
10	Ultrafast Ising Machines using spin torque nano-oscillators. Applied Physics Letters, 2021, 118, .	1.5	45
11	Spin transfer torque driven higher-order propagating spin waves in nano-contact magnetic tunnel junctions. Nature Communications, 2018, 9, 4374.	5.8	43
12	Phase-Binarized Spin Hall Nano-Oscillator Arrays: Towards Spin Hall Ising Machines. Physical Review Applied, 2022, 17, .	1.5	33
13	Auto-oscillating Spin-Wave Modes of Constriction-Based Spin Hall Nano-oscillators in Weak In-Plane Fields. Physical Review Applied, 2018, 10, .	1.5	28
14	Direct Observation of Zhang-Li Torque Expansion of Magnetic Droplet Solitons. Physical Review Letters, 2018, 120, 217204.	2.9	27
15	Width dependent auto-oscillating properties of constriction based spin Hall nano-oscillators. Applied Physics Letters, 2020, 116, .	1.5	21
16	Current Modulation of Nanoconstriction Spin-Hall Nano-Oscillators. IEEE Magnetics Letters, 2017, 8, 1-4.	0.6	19
17	Reduced spin torque nano-oscillator linewidth using He + irradiation. Applied Physics Letters, 2020, 116, 072403.	1.5	19
18	Fabrication of voltage-gated spin Hall nano-oscillators. Nanoscale, 2022, 14, 1432-1439.	2.8	16

#	ARTICLE	IF	CITATIONS
19	Spatial mapping of torques within a spin Hall nano-oscillator. Physical Review B, 2018, 98, .	1.1	15
20	Magnetodynamics in orthogonal nanocontact spin-torque nano-oscillators based on magnetic tunnel junctions. Applied Physics Letters, 2019, 115, .	1.5	11
21	Ultrathin Ferrimagnetic GdFeCo Films with Low Damping. Advanced Functional Materials, 2022, 32, .	7.8	11
22	Time resolved imaging of the non-linear bullet mode within an injection-locked nano-contact spin Hall nano-oscillator. Applied Physics Letters, 2018, 113, .	1.5	10
23	Impact of the Oersted Field on Droplet Nucleation Boundaries. IEEE Magnetics Letters, 2018, 9, 1-4.	0.6	8
24	Optothermal control of spin Hall nano-oscillators. Applied Physics Letters, 2022, 120, .	1.5	8
25	Using Magnetic Droplet Nucleation to Determine the Spin Torque Efficiency and Asymmetry in Co/Ni Thin Films. Physical Review Applied, 2018, 10, .	1.5	7
26	Effect of Excitation Fatigue on the Synchronization of Multiple Nanocontact Spin-Torque Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	5
27	Microwave Oscillators and Detectors Based on Magnetic Tunnel Junctions. , 2021, , 3-44.		4
28	Investigation of magnetic droplet solitons using x-ray holography with extended references. Scientific Reports, 2018, 8, 11533.	1.6	3
29	Magnetic force microscopy of an operational spin nano-oscillator. Microsystems and Nanoengineering, 2022, 8, .	3.4	3