Afshin Houshang

List of Publications by Year
in descending order

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29	1,322	471061	500791
papers	citations	17 h-index	28 g-index

29	29	29	1167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Memristive control of mutual spin Hall nano-oscillator synchronization for neuromorphic computing. Nature Materials, 2022, 21, 81-87.	13.3	63
2	Phase-Binarized Spin Hall Nano-Oscillator Arrays: Towards Spin Hall Ising Machines. Physical Review Applied, 2022, 17, .	1.5	33
3	Fabrication of voltage-gated spin Hall nano-oscillators. Nanoscale, 2022, 14, 1432-1439.	2.8	16
4	Ultrathin Ferrimagnetic GdFeCo Films with Low Damping. Advanced Functional Materials, 2022, 32, .	7.8	11
5	Magnetic force microscopy of an operational spin nano-oscillator. Microsystems and Nanoengineering, 2022, 8, .	3.4	3
6	Optothermal control of spin Hall nano-oscillators. Applied Physics Letters, 2022, 120, .	1.5	8
7	Ultrafast Ising Machines using spin torque nano-oscillators. Applied Physics Letters, 2021, 118, .	1.5	45
8	Microwave Oscillators and Detectors Based on Magnetic Tunnel Junctions. , 2021, , 3-44.		4
9	Width dependent auto-oscillating properties of constriction based spin Hall nano-oscillators. Applied Physics Letters, 2020, 116, .	1.5	21
10	Reduced spin torque nano-oscillator linewidth using He + irradiation. Applied Physics Letters, 2020, 116, 072403.	1.5	19
11	Magnetodynamics in orthogonal nanocontact spin-torque nano-oscillators based on magnetic tunnel junctions. Applied Physics Letters, 2019, 115, .	1.5	11
12	A single layer spin-orbit torque nano-oscillator. Nature Communications, 2019, 10, 2362.	5.8	66
13	Spatial mapping of torques within a spin Hall nano-oscillator. Physical Review B, 2018, 98, .	1.1	15
14	Using Magnetic Droplet Nucleation to Determine the Spin Torque Efficiency and Asymmetry in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Co</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mrow><mml:mi>(Ni,</mml:mi></mml:mrow> Thin Films. Physical Review Applied, 2018, 10, .	1.5	7
15	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
16	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
17	Spin transfer torque driven higher-order propagating spin waves in nano-contact magnetic tunnel junctions. Nature Communications, 2018, 9, 4374.	5.8	43
18	Direct Observation of Zhang-Li Torque Expansion of Magnetic Droplet Solitons. Physical Review Letters, 2018, 120, 217204.	2.9	27

#	Article	IF	Citations
19	Impact of the Oersted Field on Droplet Nucleation Boundaries. IEEE Magnetics Letters, 2018, 9, 1-4.	0.6	8
20	Investigation of magnetic droplet solitons using x-ray holography with extended references. Scientific Reports, 2018, 8, 11533.	1.6	3
21	A 20 nm spin Hall nano-oscillator. Nanoscale, 2017, 9, 1285-1291.	2.8	55
22	Current Modulation of Nanoconstriction Spin-Hall Nano-Oscillators. IEEE Magnetics Letters, 2017, 8, 1-4.	0.6	19
23	Long-range mutual synchronization of spin Hall nano-oscillators. Nature Physics, 2017, 13, 292-299.	6.5	221
24	Low operational current spin Hall nano-oscillators based on NiFe/W bilayers. Applied Physics Letters, 2016, 109, .	1.5	54
25	Spin-Torque and Spin-Hall Nano-Oscillators. Proceedings of the IEEE, 2016, 104, 1919-1945.	16.4	276
26	Spin-wave-beam driven synchronization of nanocontact spin-torque oscillators. Nature Nanotechnology, 2016, 11, 280-286.	15.6	119
27	Tunable permalloy-based films for magnonic devices. Physical Review B, 2015, 92, .	1.1	61
28	Effect of Excitation Fatigue on the Synchronization of Multiple Nanocontact Spin-Torque Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	5
29	CoFeB-Based Spin Hall Nano-Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	71