Zhaochu Luo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6005233/publications.pdf

Version: 2024-02-01

33	1,042	687363 13	414414 32
papers	citations	h-index	g-index

34	34	34	1406
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ice nucleation imaged with X-ray spectro-microscopy. Environmental Science Atmospheres, 2022, 2, 335-351.	2.4	2
2	Geometrical control of disorder-induced magnetic domains in planar synthetic antiferromagnets. Physical Review Materials, 2022, 6, .	2.4	1
3	Precessional dynamics of geometrically scaled magnetostatic spin waves in two-dimensional magnonic fractals. Physical Review B, 2022, 105, .	3.2	2
4	Field- and Current-Driven Magnetic Domain-Wall Inverter and Diode. Physical Review Applied, 2021, 15, .	3.8	12
5	Magnetic logic driven by electric current. Physics Today, 2021, 74, 62-63.	0.3	1
6	Nonvolatile magnetic half adder combined with memory writing. Applied Physics Letters, 2021, 118, .	3.3	2
7	Synchronization of chiral vortex nano-oscillators. Applied Physics Letters, 2021, 118, .	3.3	15
8	Artificial out-of-plane Ising antiferromagnet on the kagome lattice with very small farther-neighbor couplings. Physical Review B, 2021, 104, .	3.2	10
9	Engineering of Intrinsic Chiral Torques in Magnetic Thin Films Based on the Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2021, 16, .	3.8	3
10	Synthetic chiral magnets promoted by the Dzyaloshinskiiâ€“Moriya interaction. Applied Physics Letters, 2020, 117, .	3.3	22
11	Control of damping in perpendicularly magnetized thin films using spin-orbit torques. Physical Review B, 2020, 101, .	3.2	8
12	Ultrafast laser induced precessional dynamics in antiferromagnetically coupled ferromagnetic thin films. Physical Review B, 2020, 101, .	3.2	7
13	Current-driven magnetic domain-wall logic. Nature, 2020, 579, 214-218.	27.8	260
14	Chiral Domain Wall Injector Driven by Spinâ€“Orbit Torques. Nano Letters, 2019, 19, 5930-5937.	9.1	24
15	Nanomagnetic encoding of shape-morphing micromachines. Nature, 2019, 575, 164-168.	27.8	307
16	Thermal stability of NDR-assisted anomalous Hall effect based magnetic device. Journal of Applied Physics, 2019, 125, 203901.	2.5	4
17	Chirally coupled nanomagnets. Science, 2019, 363, 1435-1439.	12.6	123
18	Regulation of electrical and magnetic properties in amorphous CoFeTaBO films. Thin Solid Films, 2019, 669, 114-119.	1.8	3

#	Article	IF	Citations
19	Structure dependent negative magnetoresistance of amorphous carbon thin films. Diamond and Related Materials, 2017, 72, 108-113.	3.9	17
20	Large magnetoresistance of amorphous carbon films. Carbon, 2017, 122, 122-127.	10.3	12
21	Structure dependent negative and positive magnetoresistance of amorphous carbon films. Journal of Applied Physics, 2017, 121, .	2.5	10
22	Electric and magnetic properties of magnetic (CoFeTaB)(100â^'x)Ox films. Journal of Applied Physics, 2017, 122, .	2.5	5
23	Large Magnetoresistance in Silicon at Room Temperature Induced by Onsite Coulomb Interaction. Advanced Electronic Materials, 2017, 3, 1700186.	5.1	4
24	Reconfigurable Magnetic Logic Combined with Nonvolatile Memory Writing. Advanced Materials, 2017, 29, 1605027.	21.0	35
25	Angle dependent magnetotransport in transfer-free amorphous carbon thin films. Journal Physics D: Applied Physics, 2016, 49, 415005.	2.8	13
26	Extremely Large Magnetoresistance at Low Magnetic Field by Coupling the Nonlinear Transport Effect and the Anomalous Hall Effect. Advanced Materials, 2016, 28, 2760-2764.	21.0	23
27	Enhanced linear magnetoresistance of germanium at room temperature due to surface imperfection. Applied Physics Letters, 2015, 106, .	3.3	12
28	Resistance transition assisted geometry enhanced magnetoresistance in semiconductors. Journal of Applied Physics, 2015, 117, 17A302.	2.5	9
29	Siliconâ€Based Currentâ€Controlled Reconfigurable Magnetoresistance Logic Combined with Nonâ€Volatile Memory. Advanced Functional Materials, 2015, 25, 158-166.	14.9	30
30	Magnetoresistance sign change in iron-doped amorphous carbon films at low temperatures. Journal Physics D: Applied Physics, 2014, 47, 215002.	2.8	14
31	Magnetic field controllable nonvolatile resistive switching effect in silicon device. Applied Physics Letters, 2014, 104, 243511.	3.3	16
32	Large positive magnetoresistance in germanium. Journal of Applied Physics, 2014, 116, .	2.5	17
33	Enhanced low field magnetoresistance in germanium and silicon-diode combined device at room temperature. Applied Physics Letters, 2014, 105, 193508.	3.3	15