

Zhaochu Luo

List of Publications by Year in descending order

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33
papers

1,042
citations

687363

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docs citations

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times ranked

1406
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomagnetic encoding of shape-morphing micromachines. <i>Nature</i> , 2019, 575, 164-168.	27.8	307
2	Current-driven magnetic domain-wall logic. <i>Nature</i> , 2020, 579, 214-218.	27.8	260
3	Chirally coupled nanomagnets. <i>Science</i> , 2019, 363, 1435-1439.	12.6	123
4	Reconfigurable Magnetic Logic Combined with Nonvolatile Memory Writing. <i>Advanced Materials</i> , 2017, 29, 1605027.	21.0	35
5	Silicon-Based Current-Controlled Reconfigurable Magnetoresistance Logic Combined with Non-Volatile Memory. <i>Advanced Functional Materials</i> , 2015, 25, 158-166.	14.9	30
6	Chiral Domain Wall Injector Driven by Spin-Orbit Torques. <i>Nano Letters</i> , 2019, 19, 5930-5937.	9.1	24
7	Extremely Large Magnetoresistance at Low Magnetic Field by Coupling the Nonlinear Transport Effect and the Anomalous Hall Effect. <i>Advanced Materials</i> , 2016, 28, 2760-2764.	21.0	23
8	Synthetic chiral magnets promoted by the Dzyaloshinskii-Moriya interaction. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	22
9	Large positive magnetoresistance in germanium. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	17
10	Structure dependent negative magnetoresistance of amorphous carbon thin films. <i>Diamond and Related Materials</i> , 2017, 72, 108-113.	3.9	17
11	Magnetic field controllable nonvolatile resistive switching effect in silicon device. <i>Applied Physics Letters</i> , 2014, 104, 243511.	3.3	16
12	Enhanced low field magnetoresistance in germanium and silicon-diode combined device at room temperature. <i>Applied Physics Letters</i> , 2014, 105, 193508.	3.3	15
13	Synchronization of chiral vortex nano-oscillators. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	15
14	Magnetoresistance sign change in iron-doped amorphous carbon films at low temperatures. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 215002.	2.8	14
15	Angle dependent magnetotransport in transfer-free amorphous carbon thin films. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 415005.	2.8	13
16	Enhanced linear magnetoresistance of germanium at room temperature due to surface imperfection. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	12
17	Large magnetoresistance of amorphous carbon films. <i>Carbon</i> , 2017, 122, 122-127.	10.3	12
18	Field- and Current-Driven Magnetic Domain-Wall Inverter and Diode. <i>Physical Review Applied</i> , 2021, 15, .	3.8	12

#	ARTICLE	IF	CITATIONS
19	Structure dependent negative and positive magnetoresistance of amorphous carbon films. Journal of Applied Physics, 2017, 121, .	2.5	10
20	Artificial out-of-plane Ising antiferromagnet on the kagome lattice with very small farther-neighbor couplings. Physical Review B, 2021, 104, .	3.2	10
21	Resistance transition assisted geometry enhanced magnetoresistance in semiconductors. Journal of Applied Physics, 2015, 117, 17A302.	2.5	9
22	Control of damping in perpendicularly magnetized thin films using spin-orbit torques. Physical Review B, 2020, 101, .	3.2	8
23	Ultrafast laser induced precessional dynamics in antiferromagnetically coupled ferromagnetic thin films. Physical Review B, 2020, 101, .	3.2	7
24	Electric and magnetic properties of magnetic (CoFeTaB)(100 \hat{x})Ox films. Journal of Applied Physics, 2017, 122, .	2.5	5
25	Large Magnetoresistance in Silicon at Room Temperature Induced by Onsite Coulomb Interaction. Advanced Electronic Materials, 2017, 3, 1700186.	5.1	4
26	Thermal stability of NDR-assisted anomalous Hall effect based magnetic device. Journal of Applied Physics, 2019, 125, 203901.	2.5	4
27	Regulation of electrical and magnetic properties in amorphous CoFeTaBO films. Thin Solid Films, 2019, 669, 114-119.	1.8	3
28	Engineering of Intrinsic Chiral Torques in Magnetic Thin Films Based on the Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2021, 16, .	3.8	3
29	Nonvolatile magnetic half adder combined with memory writing. Applied Physics Letters, 2021, 118, .	3.3	2
30	Ice nucleation imaged with X-ray spectro-microscopy. Environmental Science Atmospheres, 2022, 2, 335-351.	2.4	2
31	Precessional dynamics of geometrically scaled magnetostatic spin waves in two-dimensional magnonic fractals. Physical Review B, 2022, 105, .	3.2	2
32	Magnetic logic driven by electric current. Physics Today, 2021, 74, 62-63.	0.3	1
33	Geometrical control of disorder-induced magnetic domains in planar synthetic antiferromagnets. Physical Review Materials, 2022, 6, .	2.4	1