Jeongmin Hong

List of Publications by Year
in descending order

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48 papers	1,543 citations	516710 16 h-index	302126 39 g-index
49 all docs	49 docs citations	49 times ranked	2833 citing authors

#	Article	IF	Citations
1	Switching of perpendicularly polarized nanomagnets with spin orbit torque without an external magnetic field by engineering a tilted anisotropy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10310-10315.	7.1	236
2	Externally controlled on-demand release of anti-HIV drug using magneto-electric nanoparticles as carriers. Nature Communications, 2013, 4, 1707.	12.8	193
3	Large resistivity modulation in mixed-phase metallic systems. Nature Communications, 2015, 6, 5959.	12.8	154
4	Experimental test of Landauerâ€™s principle in single-bit operations on nanomagnetic memory bits. Science Advances, 2016, 2, e1501492.	10.3	135
5	Covalent Chemistry for Graphene Electronics. Journal of Physical Chemistry Letters, 2011, 2, 2487-2498.	4.6	131
6	Magnetoelectric â€˜spinâ€™ on stimulating the brain. Nanomedicine, 2015, 10, 2051-2061.	3.3	116
7	Room-temperature Magnetic Ordering in Functionalized Graphene. Scientific Reports, 2012, 2, 624.	3.3	71
8	Effect of Nitrophenyl Functionalization on the Magnetic Properties of Epitaxial Graphene. Small, 2011, 7, 1175-1180.	10.0	65
9	A Spinâ€“Orbitâ€Torque Memristive Device. Advanced Electronic Materials, 2019, 5, 1800782.	5.1	51
10	Chemically Engineered Graphene-Based 2D Organic Molecular Magnet. ACS Nano, 2013, 7, 10011-10022.	14.6	47
11	Highly Secure Physically Unclonable Cryptographic Primitives Based on Interfacial Magnetic Anisotropy. Nano Letters, 2018, 18, 7211-7216.	9.1	36
12	Spin-orbit-torque-driven multilevel switching in Ta/CoFeB/MgO structures without initialization. Applied Physics Letters, 2019, 114, .	3.3	31
13	Voltage-Controlled Skyrmion Memristor for Energy-Efficient Synapse Applications. IEEE Electron Device Letters, 2019, 40, 635-638.	3.9	31
14	A spinâ€“orbit torque device for sensing three-dimensional magnetic fields. Nature Electronics, 2021, 4, 179-184.	26.0	28
15	Sub-nanosecond signal propagation in anisotropy-engineered nanomagnetic logic chains. Nature Communications, 2015, 6, 6466.	12.8	26
16	Multilevel-3D Bit Patterned Magnetic Media with 8 Signal Levels Per Nanocolumn. PLoS ONE, 2012, 7, e40134.	2.5	26
17	3D multilevel spin transfer torque devices. Applied Physics Letters, 2018, 112, .	3.3	15
18	Spinâ€“orbit torque-based reconfigurable physically unclonable functions. Applied Physics Letters, 2020, 116, .	3.3	15

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19	Sub-10-nm-resolution electron-beam lithography toward very-high-density multilevel 3D nano-magnetic information devices. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	13
20	A Dual Magnetic Tunnel Junctionâ€Based Neuromorphic Device. Advanced Intelligent Systems, 2020, 2, 2000143.	6.1	11
21	Intrinsic Controllable Magnetism of Graphene Grown on Fe. Journal of Physical Chemistry C, 2019, 123, 26870-26876.	3.1	10
22	Energy-efficient spin-transfer torque magnetization reversal in sub-10-nm magnetic tunneling junction point contacts. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	9
23	The Physics of Spin-Transfer Torque Switching in Magnetic Tunneling Junctions in Sub-10 nm Size Range. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
24	Novel Cascadable Magnetic Majority Gates for Implementing Comprehensive Logic Functions. IEEE Transactions on Electron Devices, 2018, 65, 4687-4693.	3.0	8
25	Reconfigurable Physical Unclonable Function Based on Spin-Orbit Torque Induced Chiral Domain Wall Motion. IEEE Electron Device Letters, 2021, 42, 597-600.	3.9	8
26	Investigating the effects of bulk supercooling and rapid solidification on Coâ€“Niâ€“Ga ferromagnetic shape memory alloys. Journal of Materials Science, 2011, 46, 6224-6234.	3.7	7
27	Effects of Interface Induced Natural Strains on Magnetic Properties of FeRh. Nanomaterials, 2019, 9, 574.	4.1	7
28	Reconfigurable physical unclonable cryptographic primitives based on current-induced nanomagnets switching. Science China Information Sciences, 2022, 65, 1.	4.3	7
29	Nanoelectromechanical Switches by Controlled Switchable Cracking. IEEE Electron Device Letters, 2019, 40, 1209-1212.	3.9	6
30	Demonstration of spin transfer torque (STT) magnetic recording. Applied Physics Letters, 2019, 114, .	3.3	5
31	Crack-Based Complementary Nanoelectromechanical Switches for Reconfigurable Computing. IEEE Electron Device Letters, 2020, 41, 784-787.	3.9	5
32	Memristors: A Spinâ€“Orbitâ€Torque Memristive Device (Adv. Electron. Mater. 4/2019). Advanced Electronic Materials, 2019, 5, 1970022.	5.1	4
33	Skyrmion latch and flip-flop in magnetic nanotracks with gradient anisotropy. Journal of Magnetism and Magnetic Materials, 2020, 494, 165739.	2.3	4
34	Inâ€Memory Mathematical Operations with Spinâ€Orbit Torque Devices. Advanced Science, 2022, 9, .	11.2	4
35	Self-assembled single-digit nanometer memory cells. Applied Physics Letters, 2018, 113, 062404.	3.3	3
36	Low-energy complementary ferroelectric-nanocrack logic. Nano Energy, 2020, 75, 104871.	16.0	3

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37	Thermally Assisted Skyrmion Memory (TA-SKM). IEEE Electron Device Letters, 2020, 41, 932-935.	3.9	3
38	Carbon Nanotubes Based 3-D Matrix for Enabling Three-Dimensional Nano-Magneto-Electronics. PLoS ONE, 2012, 7, e40554.	2.5	2
39	Spin Dice Based on Orthogonal Spin-Transfer Devices With Planar Polarizer. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	2
40	A three-dimensional magnetic field sensor based on a single spinâ€“orbit-torque device via domain nucleation. Applied Physics Letters, 2022, 120, .	3.3	2
41	Anomalous properties of sub-10-nm magnetic tunneling junctions. , 2015, , .		1
42	Synthesis and Properties of Monolayer Graphene (MLG)-Covered Fe(111). Chemistry of Materials, 2020, 32, 10463-10468.	6.7	1
43	Integrator based on current-controlled magnetic domain wall. Applied Physics Letters, 2021, 118, 052402.	3.3	1
44	Magnetically controlled crystallographic properties of graphite sheets with self-assembled periodic arrays of magnetoelectric nanoparticles. Applied Surface Science, 2022, 573, 151455.	6.1	1
45	Spinâ€“Orbit Torque-Driven Magnetic Switching of Co/Pt-CoFeB Exchange Spring Ferromagnets. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	0
46	Shape transformation and self-alignment of Fe-based nanoparticles. Nanoscale Advances, 2019, 1, 2523-2528.	4.6	0
47	One-step fabrication of size-controllable nicotine containing coreâ€“shell structures. Nanoscale Advances, 2019, 1, 1305-1313.	4.6	0
48	Controlled nano-cracking actuated by an in-plane voltage. Science China Information Sciences, 2021, 64, 1.	4.3	0