

Can Onur Avci

List of Publications by Year in descending order

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papers

4,068
citations

331670

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36
all docs

36
docs citations

36
times ranked

3301
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry and magnitude of spin-orbit torques in ferromagnetic heterostructures. Nature Nanotechnology, 2013, 8, 587-593.	31.5	955
2	Ultrafast magnetization switching by spin-orbit torques. Applied Physics Letters, 2014, 105, .	3.3	379
3	Spin-orbit torque magnetization switching of a three-terminal perpendicular magnetic tunnel junction. Applied Physics Letters, 2014, 104, .	3.3	306
4	Unidirectional spin Hall magnetoresistance in ferromagnet/normal metal bilayers. Nature Physics, 2015, 11, 570-575.	16.7	305
5	Interplay of spin-orbit torque and thermoelectric effects in ferromagnet/normal-metal bilayers. Physical Review B, 2014, 90, .	3.2	304
6	Current-induced switching in a magnetic insulator. Nature Materials, 2017, 16, 309-314.	27.5	302
7	Spatially and time-resolved magnetization dynamics driven by spin-orbit torques. Nature Nanotechnology, 2017, 12, 980-986.	31.5	217
8	Magneto-ionic control of magnetism using a solid-state proton pump. Nature Materials, 2019, 18, 35-41.	27.5	176
9	Fieldlike and antidamping spin-orbit torques in as-grown and annealed Ta/CoFeB/MgO layers. Physical Review B, 2014, 89, .	3.2	164
10	Interface-driven chiral magnetism and current-driven domain walls in insulating magnetic garnets. Nature Nanotechnology, 2019, 14, 561-566.	31.5	132
11	$Tm_{3Fe_{5}O_{12}}/Pt$ Heterostructures with Perpendicular Magnetic Anisotropy for Spintronic Applications. Advanced Electronic Materials, 2017, 3, 1600376.	5.1	112
12	Magnetization switching of an MgO/Co/Pt layer by in-plane current injection. Applied Physics Letters, 2012, 100, .	3.3	85
13	Interface-Enhanced Spin-Orbit Torques and Current-Induced Magnetization Switching of $PdCo$ Layers. Physical Review Applied, 2017, 7, .	3.8	85
14	Magnetism and spin transport in rare-earth-rich epitaxial terbium and europium iron garnet films. Physical Review Materials, 2018, 2, .	2.4	77
15	Magnetoresistance of heavy and light metal/ferromagnet bilayers. Applied Physics Letters, 2015, 107, .	3.3	76
16	Origins of the Unidirectional Spin Hall Magnetoresistance in Metallic Bilayers. Physical Review Letters, 2018, 121, 087207.	7.8	74
17	Fast switching and signature of efficient domain wall motion driven by spin-orbit torques in a perpendicular anisotropy magnetic insulator/Pt bilayer. Applied Physics Letters, 2017, 111, .	3.3	55
18	A multi-state memory device based on the unidirectional spin Hall magnetoresistance. Applied Physics Letters, 2017, 110, .	3.3	37

#	ARTICLE	IF	CITATIONS
19	Chiral Coupling between Magnetic Layers with Orthogonal Magnetization. Physical Review Letters, 2021, 127, 167202.	7.8	31
20	Effects of transition metal spacers on spin-orbit torques, spin Hall magnetoresistance, and magnetic anisotropy of Pt/Co bilayers. Physical Review B, 2019, 100, .	3.2	29
21	Ferromagnetic resonance of perpendicularly magnetized Tm ₃ Fe ₅ O ₁₂ /Pt heterostructures. Applied Physics Letters, 2019, 115, .	3.3	23
22	Spin transport in as-grown and annealed thulium iron garnet/platinum bilayers with perpendicular magnetic anisotropy. Physical Review B, 2017, 95, .	3.2	21
23	Crystal orientation dependence of spin-orbit torques in Co/Pt bilayers. Applied Physics Letters, 2019, 114, .	3.3	21
24	Effects of Oxidation of Top and Bottom Interfaces on the Electric, Magnetic, and Spin-Orbit Torque Properties of Pt/Co Heterostructures. Physical Review B, 2021, 103, .	3.8	19
25	Thermal nucleation and high-resolution imaging of submicrometer magnetic bubbles in thin thulium iron garnet films with perpendicular anisotropy. Physical Review Materials, 2020, 4, .	2.4	19
26	Nonlocal Detection of Out-of-Plane Magnetization in a Magnetic Insulator by Thermal Spin Drag. Physical Review Letters, 2020, 124, 027701.	7.8	13
27	Spin-orbit torques and magnetotransport properties of Pt/Sn and $\text{Pt}/\text{Pt}/\text{Sn}$ heterostructures. Physical Review B, 2021, 103, .	3.2	12
28	Current-Induced Magnetization Control in Insulating Ferrimagnetic Garnets. Journal of the Physical Society of Japan, 2021, 90, 081007.	1.6	9
29	Systematic study of nonmagnetic resistance changes due to electrical pulsing in single metal layers and metal/antiferromagnet bilayers. Journal of Applied Physics, 2020, 128, .	2.5	7
30	Engineering the Spin-Orbit-Torque Efficiency and Magnetic Properties of Tb/Co Ferrimagnetic Multilayers by Stacking Order. Physical Review Applied, 2022, 17, .	3.8	6
31	A two-terminal spin valve device controlled by spin-orbit torques with enhanced giant magnetoresistance. Applied Physics Letters, 2021, 119, .	3.3	5
32	Asymmetric depinning of chiral domain walls in ferromagnetic trilayers. Physical Review B, 2020, 102, .	3.2	4
33	Co-sputtered PtMnSb thin films and PtMnSb/Pt bilayers for spin-orbit torque investigations. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600439.	2.4	3
34	Picosecond switching in a ferromagnet. Nature Electronics, 2020, 3, 660-661.	26.0	3
35	Accurate extraction of anisotropic spin-orbit torques from harmonic measurements. Applied Physics Letters, 2021, 118, 172403.	3.3	2
36	Spin-orbit torques in ferromagnetic heterostructures: fundamentals and applications (presentation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	0