

Dustin A Gilbert

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,197
citations

218592

26
h-index

233338

45
g-index

71
all docs

71
docs citations

71
times ranked

3270
citing authors

#	ARTICLE	IF	CITATIONS
1	Reflectometry with Polarized Neutrons on In Situ Grown Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, 2100153.	0.7	3
2	Persistent Structure and Frustrated Magnetism in High Entropy Rare-Earth Zirconates. <i>Small</i> , 2022, 18, e2101323.	5.2	16
3	Controlling magnetic configuration in soft-hard bilayers probed by polarized neutron reflectometry. <i>APL Materials</i> , 2022, 10, 011107.	2.2	1
4	Magnetic and Optical Properties of Au-Co Solid Solution and Phase-Separated Thin Films and Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15047-15058.	4.0	5
5	The effect of polymer stiffness on magnetization reversal of magnetorheological elastomers. <i>APL Materials</i> , 2022, 10, 041106.	2.2	3
6	3D Nanomagnetism in Low Density Interconnected Nanowire Networks. <i>Nano Letters</i> , 2021, 21, 716-722.	4.5	39
7	FORC Diagrams in Magnetic Thin Films. , 2021, , 629-650.		0
8	Reconstructing phase-resolved hysteresis loops from first-order reversal curves. <i>Scientific Reports</i> , 2021, 11, 4018.	1.6	16
9	Exploring the composition, phase separation and structure of AgFe alloys for magneto-optical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 266, 115044.	1.7	10
10	Using methodical compositional tuning to optimize $\text{Co}_x\text{Tb}_{1-x}$ structural and magnetic properties. <i>Applied Physics Letters</i> , 2021, 118, 212405.	1.5	1
11	Charge doping effects on magnetic properties of single-crystal $\text{Co}_x\text{Tb}_{1-x}$		

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19	Optical and Magnetic Properties of Ag-Ni Bimetallic Nanoparticles Assembled via Pulsed Laser-Induced Dewetting. ACS Omega, 2020, 5, 19285-19292.	1.6	34
20	Termination switching of antiferromagnetic proximity effect in topological insulator. Science Advances, 2020, 6, eaaz8463.	4.7	20
21	Exchange bias switching in an antiferromagnet/ferromagnet bilayer driven by spin-orbit torque. Nature Electronics, 2020, 3, 757-764.	13.1	99
22	Magnetic field frustration of the metal-insulator transition in V_2O_3 . Physical Review B, 2020, 101, .	1.1	20
23	Design and realization of a sputter deposition system for the in situ and in operando use in polarized neutron reflectometry experiments: Novel capabilities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 964, 163710.	0.7	5
24	Indications for Dzyaloshinskii-Moriya interaction at the Pd/Fe interface studied by <i>in situ</i> polarized neutron reflectometry. Physical Review B, 2020, 101, .	1.1	6
25	Correlation-driven eightfold magnetic anisotropy in a two-dimensional oxide monolayer. Science Advances, 2020, 6, eaay0114.	4.7	43
26	Record thermopower found in an IrMn-based spintronic stack. Nature Communications, 2020, 11, 2023.	5.8	16
27	The emergent field of high entropy oxides: Design, prospects, challenges, and opportunities for tailoring material properties. APL Materials, 2020, 8, .	2.2	152
28	Two-way magnetic resonance tuning and enhanced subtraction imaging for non-invasive and quantitative biological imaging. Nature Nanotechnology, 2020, 15, 482-490.	15.6	78
29	Nonvolatile Ionic Modification of the Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2019, 12, .	1.5	59
30	Exploring interfacial exchange coupling and sublattice effect in heavy metal/ferrimagnetic insulator heterostructures using Hall measurements, x-ray magnetic circular dichroism, and neutron reflectometry. Physical Review B, 2019, 99, .	1.1	39
31	Damping Enhancement in Coherent Ferrite-Insulating-Paramagnet Bilayers. Physical Review Applied, 2019, 12, .	1.5	8
32	Hydrogen finds a home in ionic devices. Nature Materials, 2019, 18, 7-8.	13.3	6
33	Precipitating ordered skyrmion lattices from helical spaghetti and granular powders. Physical Review Materials, 2019, 3, .	0.9	12
34	Nanoscale magnetization inhomogeneity within single phase nanopillars. Physical Review Materials, 2019, 3, .	0.9	5
35	X-ray nanodiffraction studies of ionically controlled nanoscale phase separation in cobaltites. Physical Review Materials, 2019, 3, .	0.9	8
36	Realization of ordered magnetic skyrmions in thin films at ambient conditions. Physical Review Materials, 2019, 3, .	0.9	30

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37	Tunable magnetic ordering through cation selection in entropic spinel oxides. Physical Review Materials, 2019, 3, .	0.9	57
38	Voltage-Controlled ON-OFF Ferromagnetism at Room Temperature in a Single Metal Oxide Film. ACS Nano, 2018, 12, 10291-10300.	7.3	57
39	Exchange-biasing topological charges by antiferromagnetism. Nature Communications, 2018, 9, 2767.	5.8	61
40	Resolving interfacial charge transfer in titanate superlattices using resonant x-ray reflectometry. Physical Review Materials, 2018, 2, .	0.9	1
41	Strain-induced competition between ferromagnetism and emergent antiferromagnetism in (Eu,Sr) MnO_3 . Physical Review Materials, 2018, 2, .	0.9	2
42	Ionic tuning of cobaltites at the nanoscale. Physical Review Materials, 2018, 2, .	0.9	32
43	Tunable Low Density Palladium Nanowire Foams. Chemistry of Materials, 2017, 29, 9814-9818.	3.2	32
44	Growth-Induced In-Plane Uniaxial Anisotropy in $\text{V}_2\text{O}_3/\text{Ni}$ Films. Scientific Reports, 2017, 7, 13471.	1.6	14
45	Magnetization Reversal of Three-Dimensional Nickel Anti-Sphere Arrays. IEEE Magnetics Letters, 2017, 8, 1-4.	0.6	3
46	First-order reversal curve of the magnetostructural phase transition in FeTe. Physical Review B, 2017, 95, .	1.1	7
47	Realization of Ground-State Artificial Skyrmion Lattices at Room Temperature. , 2016, , .		1
48	Reversible control of magnetism in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ through chemically-induced oxygen migration. Applied Physics Letters, 2016, 108, .	1.5	33
49	Magnetic Yoking and Tunable Interactions in FePt-Based Hard/Soft Bilayers. Scientific Reports, 2016, 6, 32842.	1.6	19
50	Controllable positive exchange bias via redox-driven oxygen migration. Nature Communications, 2016, 7, 11050.	5.8	101
51	Structural and magnetic depth profiles of magneto-ionic heterostructures beyond the interface limit. Nature Communications, 2016, 7, 12264.	5.8	107
52	Concurrent magnetic and structural reconstructions at the interface of (111)-oriented $\text{La}_a\text{Sr}_{1-a}\text{MnO}_3$.	1.1	26
53	Lengthscale effects on exchange coupling in Co-Pt $\text{L}_1 + \text{L}_{12}$ nanochessboards. APL Materials, 2016, 4, .	2.2	7
54	Magnetometry-based order parameter to probe the A1 to L1 transformation in FeCuPt for heat-assisted magnetic recording media. , 2015, , .		0

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55	A new reversal mode in exchange coupled antiferromagnetic/ferromagnetic disks: distorted viscous vortex. <i>Nanoscale</i> , 2015, 7, 9878-9885.	2.8	18
56	Realization of ground-state artificial skyrmion lattices at room temperature. <i>Nature Communications</i> , 2015, 6, 8462.	5.8	184
57	Accessing different spin-disordered states using first-order reversal curves. <i>Physical Review B</i> , 2014, 90, .	1.1	16
58	Magnetization reversal in perpendicularly magnetized L1 FePd/FePt heterostructures. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	9
59	Probing the A_{100} to L_{100} transformation in FeCuPt using the first order reversal curve method. <i>APL Materials</i> , 2014, 2, .	2.2	28
60	Quantitative Decoding of Interactions in Tunable Nanomagnet Arrays Using First Order Reversal Curves. <i>Scientific Reports</i> , 2014, 4, 4204.	1.6	125
61	Reversal mode instability and magnetoresistance in perpendicular (Co/Pd)/Cu/(Co/Ni) pseudo-spin-valves. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	21
62	Probing the dynamic response of antivortex, interstitial and trapped vortex lattices on magnetic periodic pinning potentials. <i>Superconductor Science and Technology</i> , 2013, 26, 085018.	1.8	6
63	Tuning magnetic anisotropy in (001) oriented L1 (Fe $_{1-x}$ Cu $_x$) $_{55}$ Pt $_{45}$ films. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	66
64	Size-dependent magnetization switching characteristics and spin wave modes of FePt nanostructures. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	11
65	Control of dissipation in superconducting films by magnetic stray fields. <i>Applied Physics Letters</i> , 2013, 102, 052601.	1.5	15
66	Microwave enhanced silica encapsulation of magnetic nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 8449.	6.7	23
67	Rapid Size-Controlled Synthesis of Dextran-Coated, ^{64}Cu -Doped Iron Oxide Nanoparticles. <i>ACS Nano</i> , 2012, 6, 3461-3467.	7.3	113
68	Rapid microwave-assisted synthesis of dextran-coated iron oxide nanoparticles for magnetic resonance imaging. <i>Nanotechnology</i> , 2012, 23, 215602.	1.3	83
69	Fingerprinting Inhomogeneities in Recording Media Using the First-Order Reversal Curve Method. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2988-2991.	1.2	27
70	Chirality control via double vortices in asymmetric Co dots. <i>Physical Review B</i> , 2011, 83, .	1.1	33