David J Keavney

List of Publications by Year in descending order

85 papers	2,582 citations	201674 27 h-index	197818 49 g-index
85 all docs	85 docs citations	85 times ranked	3897 citing authors

#	Article	IF	Citations
1	Large intrinsic anomalous Hall effect in SrIrO3 induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283.	12.8	34
2	Nanoscale ferroelastic twins formed in strained LaCoO ₃ films. Science Advances, 2019, 5, eaav5050.	10.3	48
3	Electronic Structure and Band Alignment of LaMnO₃/SrTiO₃ Polar/Nonpolar Heterojunctions. Advanced Materials Interfaces, 2019, 6, 1801428.	3.7	22
4	Switchable orbital polarization and magnetization in strained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaCo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> films. Physical Review Materials, 2019, 3, .	2.4	28
5	Phase Coexistence and Kinetic Arrest in the Magnetostructural Transition of the Ordered Alloy FeRh. Scientific Reports, 2018, 8, 1778.	3.3	25
6	Tuning the NÃ©el Temperature of Hexagonal Ferrites by Structural Distortion. Physical Review Letters, 2018, 121, 237203.	7.8	29
7	Spin-polarization and x-ray magnetic circular dichroism in GaAs. Current Applied Physics, 2018, 18, 1182-1184.	2.4	1
8	Imaging the magnetic structures of artificial quasicrystal magnets using resonant coherent diffraction of circularly polarized X-rays. Nanoscale, 2018, 10, 13159-13164.	5.6	5
9	Electronic and Optical Properties of a Semiconducting Spinel (Fe₂CrO₄). Advanced Functional Materials, 2017, 27, 1605040.	14.9	23
10	Voltage-controlled interlayer coupling in perpendicularly magnetized magnetic tunnel junctions. Nature Communications, 2017, 8, 15232.	12.8	43
11	Electronic structure and direct observation of ferrimagnetism in multiferroic hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YbFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> Physical Review B, 2017, 95, .	3.2	27
12	Direct imaging of coexisting ordered and frustrated sublattices in artificial ferromagnetic quasicrystals. Physical Review B, 2016, 93, .	3.2	34
13	Synthesis, Structure, and Spectroscopy of Epitaxial EuFeO₃ Thin Films. Crystal Growth and Design, 2015, 15, 1105-1111.	3.0	19
14	Layer resolved magnetic domain imaging of epitaxial heterostructures in large applied magnetic fields. Applied Physics Letters, 2015, 106, 072408.	3.3	3
15	Structural perturbations of epitaxial Î±-(Fe1â^'xVx)2O3 thin films driven by excess oxygen near the surface. Journal of Applied Physics, 2014, 116, .	2.5	10
16	Time-resolved photoemission electron microscopy imaging of mode coupling between three interacting magnetic vortices. Applied Physics Letters, 2014, 105, 102408.	3.3	7
17	Interfacial exchange coupling in Fe/(Ga,Mn)As bilayers. Physical Review B, 2014, 89, .	3.2	6
18	Effect of Interfacial Octahedral Behavior in Ultrathin Manganite Films. Nano Letters, 2014, 14, 2509-2514.	9.1	121

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19	Structural and electronic origin of the magnetic structures in hexagonal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">LuFeO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	3.2	38
20	Publisher's Note: Structural and electronic origin of the magnetic structures in hexagonal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">LuFeO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> [Phys. Rev. B90, 014436 (2014)]. Physical Review B, 2014, 90, .	3.2	3
21	Fluorination of Epitaxial Oxides: Synthesis of Perovskite Oxyfluoride Thin Films. Journal of the American Chemical Society, 2014, 136, 2224-2227.	13.7	65
22	Strain Effects in Narrow-Bandwidth Manganites: The Case of Epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Eu</mml:mi></mml:mrow><mml:mrow><mml:mn>0.7</mml:mn></m Films. Physical Review Applied, 2014, 1, .	3.8	9
23	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. Nature Communications, 2013, 4, 2960.	12.8	160
24	Exchange bias and asymmetric magnetization reversal in ultrathin Fe films grown on GaAs (001) substrates. Journal of Applied Physics, 2013, 113, .	2.5	7
25	Room-Temperature Multiferroic Hexagonal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LuFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Films. Physical Review Letters, 2013, 110, 237601.	7.8	195
26	Optical design of the Short Pulse Soft X-ray Spectroscopy beamline at the Advanced Photon Source. Journal of Synchrotron Radiation, 2013, 20, 654-659.	2.4	3
27	Crystal field splitting and optical bandgap of hexagonal LuFeO3 films. Applied Physics Letters, 2012, 101, .	3.3	51
28	Structural and magnetic properties of MBE-grown GeMnN<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>thin films. Physical Review B, 2012, 85, .	3.2	2
29	Effects of unreconstructed and reconstructed polar surface terminations on growth, structure, and magnetic properties of hematite films. Physical Review B, 2012, 85, .	3.2	9
30	Growth diagram and magnetic properties of hexagonal LuFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>thin films. Physical Review B, 2012, 85, .	3.2	25
31	Studies of nanomagnetism using synchrotron-based x-ray photoemission electron microscopy (X-PEEM). Reports on Progress in Physics, 2012, 75, 026501.	20.1	71
32	Charge Order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LuFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>: An Unlikely Route to Ferroelectricity. Physical Review Letters, 2012, 108, 187601.	7.8	105
33	Strongly exchange coupled inverse ferrimagnetic soft/hard, MnxFe3â^'xO4/FexMn3â^'xO4, core/shell heterostructured nanoparticles. Nanoscale, 2012, 4, 5138.	5.6	76
34	Spin Polarization Measurement of Homogeneously Doped Fe_{1â€“x}Co_xSi Nanowires by Andreev Reflection Spectroscopy. Nano Letters, 2011, 11, 4431-4437.	9.1	33
35	Imaging of magnetization dynamics in artificial ferromagnetic nanoscale structures. , 2010, , .		0
36	Strain-driven spin reorientation in magnetite/barium titanate heterostructures. Applied Physics Letters, 2010, 96, .	3.3	32

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37	Polarity reversal of a magnetic vortex core by a unipolar, nonresonant in-plane pulsed magnetic field. Applied Physics Letters, 2009, 94, .	3.3	16
38	Element-specific magnetometry of EuS nanocrystals. Applied Physics Letters, 2009, 95, 202501.	3.3	22
39	Non-linear magnetization dynamics and transient domains in ferromagnetic disks. , 2009, , .		0
40	Temperature dependence ofEuâ€‰4fandEuâ€‰5dmagnetizations in the filled skutteruditeEuFe4Sb12. Physical Review B, 2009, 79, .	3.2	13
41	Nonlinear vortex dynamics and transient domains in ferromagnetic disks. Physical Review B, 2009, 79, .	3.2	28
42	Electronic structure of substitutional Mn in epitaxial In0.965Mn0.035Sb film. Applied Physics Letters, 2009, 95, 201905.	3.3	7
43	Correlated substitution in paramagneticMn2+-doped ZnO epitaxial films. Physical Review B, 2009, 79, .	3.2	54
44	Lateral- and layer-resolved magnetization reversals in a spin-valve array. Journal of Applied Physics, 2008, 103, 07C513.	2.5	3
45	Investigation of heteroepitaxial growth of magnetite thin films. Journal of Vacuum Science & Technology B, 2007, 25, 1389.	1.3	30
46	Facility update: Research and Operations at the Advanced Photon Source. Synchrotron Radiation News, 2007, 20, 37-42.	0.8	1
47	Where does the spin reside in ferromagnetic Cu-doped ZnO?. Applied Physics Letters, 2007, 91, .	3.3	70
48	The breakdown of the fingerprinting of vortices by hysteresis loops in circular multilayer ring arrays. Applied Physics Letters, 2007, 91, 132501.	3.3	13
49	Phase separation and nanoparticle formation in Cr-dosed FePt thin films. Journal of Applied Physics, 2007, 101, 053901.	2.5	3
50	Magnetic Instability Regions in Patterned Structures: Influence of Element Shape on Magnetization Reversal Dynamics. Physical Review Letters, 2007, 98, 147202.	7.8	20
51	Ferrimagnetism inEuFe4Sb12due to the Interplay off-Electron Moments and a Nearly Ferromagnetic Host. Physical Review Letters, 2007, 98, 126403.	7.8	38
52	Magnetic Vortex Core Dynamics in Cylindrical Ferromagnetic Dots. Physical Review Letters, 2006, 96, 067205.	7.8	230
53	Surface order dependent magnetic thin film growth: Fe on GaN(0001). Surface Science, 2006, 600, 48-53.	1.9	4
54	Origin of the interlayer exchange coupling in[Coâˆ•Pt]âˆ•NiOâˆ•[Coâˆ•Pt]multilayers studied with XAS, XMCD, and micromagnetic modeling. Physical Review B, 2006, 74, .	3.2	31

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55	Selective growth of Co nanoislands on an oxygen-patterned Ru(0001) surface. Physical Review B, 2005, 72, .	3.2	10
56	Local environment of ferromagnetically ordered Mn in epitaxial InMnAs. Applied Physics Letters, 2005, 86, 072505.	3.3	16
57	Role of Defect Sites and Ga Polarization in the Magnetism of Mn-Doped GaN. Physical Review Letters, 2005, 95, 257201.	7.8	50
58	Concentration-independent local ferromagnetic Mn configuration inGa1âˆ’xMnxAs. Physical Review B, 2005, 71, .	3.2	21
59	Precessional dynamics of elemental moments in a ferromagnetic alloy. Physical Review B, 2004, 70, .	3.2	58
60	Oscillatory interlayer exchange coupling in[Ptâ•Co]nâ•NiOâ•[Coâ•Pt]nmultilayers with perpendicular anisotropy: Dependence onNiOandPtlayer thicknesses. Physical Review B, 2004, 70, .	3.2	30
61	Enhanced magnetic orbital moment of ultrathin Co films on Ge(100). Physical Review B, 2004, 69, .	3.2	22
62	Induced Ge spin polarization at theFeâ•Geinterface. Physical Review B, 2004, 70, .	3.2	18
63	Interdiffusion and thermal stability in magnetic tunnel junction ferromagnet/insulator/ferromagnet trilayer structures. Journal of Applied Physics, 2004, 95, 3037-3040.	2.5	7
64	Element Resolved Spin Configuration in Ferromagnetic Manganese-Doped Gallium Arsenide. Physical Review Letters, 2003, 91, 187203.	7.8	68
65	Grain boundary mediated oxidation and interlayer dipolar coupling in a magnetic tunnel junction structure. Physical Review B, 2003, 67, .	3.2	11
66	Deposition Techniques for Magnetic Thin Films and Multilayers. , 2003, , 413-447.		1
67	Diffuse interface electron scattering in epitaxial Co/Cu bilayers. Journal of Applied Physics, 2002, 91, 8108.	2.5	5
68	Thermal stability of magnetic tunnel junctions studied by x-ray photoelectron spectroscopy. Applied Physics Letters, 2001, 78, 234-236.	3.3	22
69	Specular and diffuse electron scattering at interfaces in metal spin-valve structures. Journal of Applied Physics, 1999, 86, 476-479.	2.5	10
70	Enhanced Co orbital moments in Coâ€“rare-earth permanent-magnet films. Physical Review B, 1998, 57, 5291-5297.	3.2	22
71	Structural and magnetic phases of ultrathin Fe wedges and films grown on diamond (100). Physical Review B, 1998, 57, 10044-10048.	3.2	5
72	Growth and characterization of epitaxial fcc Fe wedges on diamond (100). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2326-2329.	2.1	0

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73	Perpendicular conductance and magnetic coupling in epitaxial Fe/MgO/Fe(100) trilayers. Journal of Applied Physics, 1997, 81, 795-798.	2.5	23
74	High-coercivity, c-axis oriented Nd2Fe14B films grown by molecular beam epitaxy. Journal of Applied Physics, 1997, 81, 4441-4443.	2.5	51
75	Oscillatory ferromagnetic interlayer coupling of Fe(110) thin films through (111) oriented Ag and Cu spacers. Physical Review B, 1996, 54, 9942-9951.	3.2	16
76	Magnetic properties of c-axis textured Nd/sub 2/Fe/sub 14/B thin films. IEEE Transactions on Magnetics, 1996, 32, 4440-4442.	2.1	22
77	Site-Specific MÃ¶ssbauer Evidence of Structure-Induced Magnetic Phase Transition in fcc Fe(100) Thin Films. Physical Review Letters, 1995, 74, 4531-4534.	7.8	80
78	Elastic and hardness properties of Feâ€“Ag (001) multilayered thin films. Applied Physics Letters, 1995, 66, 46-48.	3.3	12
79	Oscillatory interlayer coupling through (111) oriented noble metal spacers. Journal of Applied Physics, 1994, 75, 6464-6466.	2.5	2
80	Measurements of magnetic interaction through silver in epitaxial Fe(110)/Ag(111) superlattices by MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 1994, 83, 51-54.	0.5	0
81	Growth of Fe(110)/bcc Ni(110) superlattices by molecular beam epitaxy. Journal of Magnetism and Magnetic Materials, 1993, 121, 34-36.	2.3	14
82	Effects of interfacial roughness on site-probed multilayers of Fe(100)/Ag(100). Journal of Magnetism and Magnetic Materials, 1993, 121, 49-52.	2.3	13
83	Interlayer coupling in epitaxial Fe(110)/Ag(111) multilayers. Journal of Magnetism and Magnetic Materials, 1993, 121, 283-285.	2.3	5
84	Oscillatory exchange coupling of ferromagnetically aligned Fe(110) layers through Ag(111) interlayers. Physical Review Letters, 1993, 71, 927-930.	7.8	16
85	Magnetic and structural properties of Fe(110)/Ag(111) and Fe(100)/Ag(100) multilayers. Hyperfine Interactions, 1992, 68, 271-274.	0.5	0