

David J Keavney

List of Publications by Year in descending order

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85
papers

2,582
citations

201674

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49
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85
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85
docs citations

85
times ranked

3897
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Vortex Core Dynamics in Cylindrical Ferromagnetic Dots. <i>Physical Review Letters</i> , 2006, 96, 067205.	7.8	230
2	Room-Temperature Multiferroic Hexagonal LuFeO_3 Films. <i>Physical Review Letters</i> , 2013, 110, 237601.	7.8	195
3	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. <i>Nature Communications</i> , 2013, 4, 2960.	12.8	160
4	Effect of Interfacial Octahedral Behavior in Ultrathin Manganite Films. <i>Nano Letters</i> , 2014, 14, 2509-2514.	9.1	121
5	Charge Order in LuFe_2O_4 : An Unlikely Route to Ferroelectricity. <i>Physical Review Letters</i> , 2012, 108, 187601.	7.8	105
6	Site-Specific Mössbauer Evidence of Structure-Induced Magnetic Phase Transition in fcc Fe(100) Thin Films. <i>Physical Review Letters</i> , 1995, 74, 4531-4534.	7.8	80
7	Strongly exchange coupled inverse ferrimagnetic soft/hard, $\text{Mn}_x\text{Fe}_{3-x}\text{O}_4/\text{Fe}_x\text{Mn}_{3-x}\text{O}_4$, core/shell heterostructured nanoparticles. <i>Nanoscale</i> , 2012, 4, 5138.	5.6	76
8	Studies of nanomagnetism using synchrotron-based x-ray photoemission electron microscopy (X-PEEM). <i>Reports on Progress in Physics</i> , 2012, 75, 026501.	20.1	71
9	Where does the spin reside in ferromagnetic Cu-doped ZnO?. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	70
10	Element Resolved Spin Configuration in Ferromagnetic Manganese-Doped Gallium Arsenide. <i>Physical Review Letters</i> , 2003, 91, 187203.	7.8	68
11	Fluorination of Epitaxial Oxides: Synthesis of Perovskite Oxyfluoride Thin Films. <i>Journal of the American Chemical Society</i> , 2014, 136, 2224-2227.	13.7	65
12	Precessional dynamics of elemental moments in a ferromagnetic alloy. <i>Physical Review B</i> , 2004, 70, .	3.2	58
13	Correlated substitution in paramagnetic Mn^{2+} -doped ZnO epitaxial films. <i>Physical Review B</i> , 2009, 79, .	3.2	54
14	High-coercivity, c-axis oriented $\text{Nd}_2\text{Fe}_{14}\text{B}$ films grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 1997, 81, 4441-4443.	2.5	51
15	Crystal field splitting and optical bandgap of hexagonal LuFeO_3 films. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	51
16	Role of Defect Sites and Ga Polarization in the Magnetism of Mn-Doped GaN. <i>Physical Review Letters</i> , 2005, 95, 257201.	7.8	50
17	Nanoscale ferroelastic twins formed in strained LaCoO_3 films. <i>Science Advances</i> , 2019, 5, eaav5050.	10.3	48
18	Voltage-controlled interlayer coupling in perpendicularly magnetized magnetic tunnel junctions. <i>Nature Communications</i> , 2017, 8, 15232.	12.8	43

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19	Ferrimagnetism in $\text{EuFe}_4\text{Sb}_{12}$ due to the Interplay of Electron Moments and a Nearly Ferromagnetic Host. <i>Physical Review Letters</i> , 2007, 98, 126403.	7.8	38
20	Structural and electronic origin of the magnetic structures in hexagonal LuFeO_3 . <i>Physical Review B</i> , 2014, 90, .	3.2	38
21	Direct imaging of coexisting ordered and frustrated sublattices in artificial ferromagnetic quasicrystals. <i>Physical Review B</i> , 2016, 93, .	3.2	34
22	Large intrinsic anomalous Hall effect in SrIrO_3 induced by magnetic proximity effect. <i>Nature Communications</i> , 2021, 12, 3283.	12.8	34
23	Spin Polarization Measurement of Homogeneously Doped $\text{Fe}_{1-x}\text{Co}_x\text{Si}$ Nanowires by Andreev Reflection Spectroscopy. <i>Nano Letters</i> , 2011, 11, 4431-4437.	9.1	33
24	Strain-driven spin reorientation in magnetite/barium titanate heterostructures. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	32
25	Origin of the interlayer exchange coupling in $[\text{CoPt}/\text{NiO}]_n$ multilayers studied with XAS, XMCD, and micromagnetic modeling. <i>Physical Review B</i> , 2006, 74, .	3.2	31
26	Oscillatory interlayer exchange coupling in $[\text{PtCo}]_n/\text{NiO}/[\text{CoPt}]_m$ multilayers with perpendicular anisotropy: Dependence on NiO and Pt layer thicknesses. <i>Physical Review B</i> , 2004, 70, .	3.2	30
27	Investigation of heteroepitaxial growth of magnetite thin films. <i>Journal of Vacuum Science & Technology B</i> , 2007, 25, 1389.	1.3	30
28	Tuning the Néel Temperature of Hexagonal Ferrites by Structural Distortion. <i>Physical Review Letters</i> , 2018, 121, 237203.	7.8	29
29	Nonlinear vortex dynamics and transient domains in ferromagnetic disks. <i>Physical Review B</i> , 2009, 79, .	3.2	28
30	Switchable orbital polarization and magnetization in strained LaCoO_3 films. <i>Physical Review Materials</i> , 2019, 3, .	2.4	28
31	Electronic structure and direct observation of ferrimagnetism in multiferroic hexagonal YbFeO_3 . <i>Physical Review B</i> , 2017, 95, .	3.2	27
32	Growth diagram and magnetic properties of hexagonal LuFe_2O_4 thin films. <i>Physical Review B</i> , 2012, 85, .	3.2	25
33	Phase Coexistence and Kinetic Arrest in the Magnetostructural Transition of the Ordered Alloy FeRh . <i>Scientific Reports</i> , 2018, 8, 1778.	3.3	25
34	Perpendicular conductance and magnetic coupling in epitaxial $\text{Fe}/\text{MgO}/\text{Fe}(100)$ trilayers. <i>Journal of Applied Physics</i> , 1997, 81, 795-798.	2.5	23
35	Electronic and Optical Properties of a Semiconducting Spinel (Fe_2CrO_4). <i>Advanced Functional Materials</i> , 2017, 27, 1605040.	14.9	23
36	Magnetic properties of c-axis textured $\text{Nd}_2\text{Fe}_{14}\text{B}$ thin films. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 4440-4442.	2.1	22

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37	Enhanced Co orbital moments in Co-rare-earth permanent-magnet films. <i>Physical Review B</i> , 1998, 57, 5291-5297.	3.2	22
38	Thermal stability of magnetic tunnel junctions studied by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2001, 78, 234-236.	3.3	22
39	Enhanced magnetic orbital moment of ultrathin Co films on Ge(100). <i>Physical Review B</i> , 2004, 69, .	3.2	22
40	Element-specific magnetometry of EuS nanocrystals. <i>Applied Physics Letters</i> , 2009, 95, 202501.	3.3	22
41	Electronic Structure and Band Alignment of $\text{LaMnO}_3/\text{SrTiO}_3$ Polar/Nonpolar Heterojunctions. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801428.	3.7	22
42	Concentration-independent local ferromagnetic Mn configuration in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$. <i>Physical Review B</i> , 2005, 71, .	3.2	21
43	Magnetic Instability Regions in Patterned Structures: Influence of Element Shape on Magnetization Reversal Dynamics. <i>Physical Review Letters</i> , 2007, 98, 147202.	7.8	20
44	Synthesis, Structure, and Spectroscopy of Epitaxial EuFeO_3 Thin Films. <i>Crystal Growth and Design</i> , 2015, 15, 1105-1111.	3.0	19
45	Induced Ge spin polarization at the Fe/Ge interface. <i>Physical Review B</i> , 2004, 70, .	3.2	18
46	Oscillatory exchange coupling of ferromagnetically aligned Fe(110) layers through Ag(111) interlayers. <i>Physical Review Letters</i> , 1993, 71, 927-930.	7.8	16
47	Oscillatory ferromagnetic interlayer coupling of Fe(110) thin films through (111) oriented Ag and Cu spacers. <i>Physical Review B</i> , 1996, 54, 9942-9951.	3.2	16
48	Local environment of ferromagnetically ordered Mn in epitaxial InMnAs . <i>Applied Physics Letters</i> , 2005, 86, 072505.	3.3	16
49	Polarity reversal of a magnetic vortex core by a unipolar, nonresonant in-plane pulsed magnetic field. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	16
50	Growth of Fe(110)/bcc Ni(110) superlattices by molecular beam epitaxy. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 34-36.	2.3	14
51	Effects of interfacial roughness on site-probed multilayers of Fe(100)/Ag(100). <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 49-52.	2.3	13
52	The breakdown of the fingerprinting of vortices by hysteresis loops in circular multilayer ring arrays. <i>Applied Physics Letters</i> , 2007, 91, 132501.	3.3	13
53	Temperature dependence of Eu^{4f} and Eu^{5d} magnetizations in the filled skutterudite $\text{EuFe}_4\text{Sb}_{12}$. <i>Physical Review B</i> , 2009, 79, .	3.2	13
54	Elastic and hardness properties of Fe/Ag (001) multilayered thin films. <i>Applied Physics Letters</i> , 1995, 66, 46-48.	3.3	12

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55	Grain boundary mediated oxidation and interlayer dipolar coupling in a magnetic tunnel junction structure. <i>Physical Review B</i> , 2003, 67, .	3.2	11
56	Specular and diffuse electron scattering at interfaces in metal spin-valve structures. <i>Journal of Applied Physics</i> , 1999, 86, 476-479.	2.5	10
57	Selective growth of Co nanoislands on an oxygen-patterned Ru(0001) surface. <i>Physical Review B</i> , 2005, 72, .	3.2	10
58	Structural perturbations of epitaxial $\text{Fe}_{1-x}\text{V}_x\text{O}_3$ thin films driven by excess oxygen near the surface. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	10
59	Effects of unreconstructed and reconstructed polar surface terminations on growth, structure, and magnetic properties of hematite films. <i>Physical Review B</i> , 2012, 85, .	3.2	9
60	Strain Effects in Narrow-Bandwidth Manganites: The Case of Epitaxial $\text{Eu}_{1-x}\text{Mn}_x\text{O}_2$ Films. <i>Physical Review Applied</i> , 2014, 1, .	3.8	9
61	Interdiffusion and thermal stability in magnetic tunnel junction ferromagnet/insulator/ferromagnet trilayer structures. <i>Journal of Applied Physics</i> , 2004, 95, 3037-3040.	2.5	7
62	Electronic structure of substitutional Mn in epitaxial $\text{In}_{0.965}\text{Mn}_{0.035}\text{Sb}$ film. <i>Applied Physics Letters</i> , 2009, 95, 201905.	3.3	7
63	Exchange bias and asymmetric magnetization reversal in ultrathin Fe films grown on GaAs (001) substrates. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	7
64	Time-resolved photoemission electron microscopy imaging of mode coupling between three interacting magnetic vortices. <i>Applied Physics Letters</i> , 2014, 105, 102408.	3.3	7
65	Interfacial exchange coupling in $\text{Fe}/(\text{Ga},\text{Mn})\text{As}$ bilayers. <i>Physical Review B</i> , 2014, 89, .	3.2	6
66	Interlayer coupling in epitaxial $\text{Fe}(110)/\text{Ag}(111)$ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 283-285.	2.3	5
67	Structural and magnetic phases of ultrathin Fe wedges and films grown on diamond (100). <i>Physical Review B</i> , 1998, 57, 10044-10048.	3.2	5
68	Diffuse interface electron scattering in epitaxial Co/Cu bilayers. <i>Journal of Applied Physics</i> , 2002, 91, 8108.	2.5	5
69	Imaging the magnetic structures of artificial quasicrystal magnets using resonant coherent diffraction of circularly polarized X-rays. <i>Nanoscale</i> , 2018, 10, 13159-13164.	5.6	5
70	Surface order dependent magnetic thin film growth: Fe on $\text{GaN}(0001)$. <i>Surface Science</i> , 2006, 600, 48-53.	1.9	4
71	Phase separation and nanoparticle formation in Cr-dosed FePt thin films. <i>Journal of Applied Physics</i> , 2007, 101, 053901.	2.5	3
72	Lateral- and layer-resolved magnetization reversals in a spin-valve array. <i>Journal of Applied Physics</i> , 2008, 103, 07C513.	2.5	3

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73	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
74	Publisher's Note: Structural and electronic origin of the magnetic structures in hexagonal LuFeO_3 [Phys. Rev. B 90 , 014436 (2014)]. Physical Review B, 2014, 90, .	3.2	3
75	Layer resolved magnetic domain imaging of epitaxial heterostructures in large applied magnetic fields. Applied Physics Letters, 2015, 106, 072408.	3.3	3
76	Oscillatory interlayer coupling through (111) oriented noble metal spacers. Journal of Applied Physics, 1994, 75, 6464-6466.	2.5	2
77	Structural and magnetic properties of MBE-grown GeMnN thin films. Physical Review B, 2012, 85, .	3.2	2
78	Facility update: Research and Operations at the Advanced Photon Source. Synchrotron Radiation News, 2007, 20, 37-42.	0.8	1
79	Spin-polarization and x-ray magnetic circular dichroism in GaAs. Current Applied Physics, 2018, 18, 1182-1184.	2.4	1
80	Deposition Techniques for Magnetic Thin Films and Multilayers. , 2003, , 413-447.		1
81	Magnetic and structural properties of $\text{Fe}(110)/\text{Ag}(111)$ and $\text{Fe}(100)/\text{Ag}(100)$ multilayers. Hyperfine Interactions, 1992, 68, 271-274.	0.5	0
82	Measurements of magnetic interaction through silver in epitaxial $\text{Fe}(110)/\text{Ag}(111)$ superlattices by Mössbauer spectroscopy. Hyperfine Interactions, 1994, 83, 51-54.	0.5	0
83	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
84	Non-linear magnetization dynamics and transient domains in ferromagnetic disks. , 2009, , .		0
85	Imaging of magnetization dynamics in artificial ferromagnetic nanoscale structures. , 2010, , .		0