

Joseph Davies

List of Publications by Year in descending order

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27
papers

1,236
citations

516561

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580701

25
g-index

28
all docs

28
docs citations

28
times ranked

1463
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetization reversal of Co/Pt multilayers: Microscopic origin of high-field magnetic irreversibility. Physical Review B, 2004, 70, .	1.1	268
2	Magneto-resistive Sensor Development Roadmap (Non-Recording Applications). IEEE Transactions on Magnetics, 2019, 55, 1-30.	1.2	138
3	Anisotropy dependence of irreversible switching in Fe/SmCo and Fe/Ni/FePt exchange spring magnet films. Applied Physics Letters, 2005, 86, 262503.	1.5	134
4	Disorder-Induced Microscopic Magnetic Memory. Physical Review Letters, 2005, 94, 017202.	2.9	100
5	Magnetic and Mössbauer Spectral Study of Core/Shell Structured Fe/Au Nanoparticles. Chemistry of Materials, 2006, 18, 960-967.	3.2	69
6	Disorder-induced magnetic memory: Experiments and theories. Physical Review B, 2007, 75, .	1.1	68
7	Vertically graded anisotropy in Co/Pd multilayers. Physical Review B, 2010, 81, .	1.1	66
8	Magnetization reversal and nanoscopic magnetic-phase separation in La _{1-x} Sr _x CoO ₃ . Physical Review B, 2005, 72, .	1.1	64
9	Coupled structural/magnetocrystalline anisotropy transitions in the doped perovskite cobaltite $Pr_{1-x}Mn_xCoO_3$. Physical Review B, 2009, 79, .	1.1	45
10	Influence of structural disorder on magnetic domain formation in perpendicular anisotropy thin films. Physical Review B, 2013, 87, .	1.1	41
11	Superconformal Electrodeposition of Co and Co-Fe Alloys Using 2-Mercapto-5-benzimidazolesulfonic Acid. Journal of the Electrochemical Society, 2009, 156, D301.	1.3	40
12	Frustration driven stripe domain formation in Co/Pt multilayer films. Applied Physics Letters, 2009, 95, 022505.	1.5	34
13	Temperature-dependent magnetization reversal in Ru/TiO ₂ /Co/Pt multilayers. Physical Review B, 2008, 77, 104407.	1.1	31
14	Direct observation of magnetic gradient in Co/Pd pressure-graded media. Journal of Applied Physics, 2009, 105, 07C929.	1.1	26
15	Magnetic Materials for Three-Dimensional Damascene Metallization: Void-Free Electrodeposition of Ni and Ni ₇₀ Fe ₃₀ Using 2-Mercapto-5-benzimidazolesulfonic Acid. Journal of the Electrochemical Society, 2008, 155, D499.	1.3	21
16	Reversal mode instability and magnetoresistance in perpendicular (Co/Pd)/Cu/(Co/Ni) pseudo-spin-valves. Applied Physics Letters, 2013, 103, .	1.5	21
17	Reconstructing phase-resolved hysteresis loops from first-order reversal curves. Scientific Reports, 2021, 11, 4018.	1.6	16
18	Reversal of patterned Co/Pd multilayers with graded magnetic anisotropy. Journal of Applied Physics, 2011, 109, .	1.1	14

#	ARTICLE	IF	CITATIONS
19	Magnetoresistive sensor detectivity: A comparative analysis. Applied Physics Letters, 2021, 118, .	1.5	12
20	Magnetoresistance based first-order reversal curve analysis of magnetic tunnel junctions. Applied Physics Letters, 2009, 95, .	1.5	9
21	Hysteresis loops of Co/Pt perpendicular magnetic multilayers. Journal of Physics Condensed Matter, 2004, 16, 5897-5906.	0.7	6
22	Depth-resolved magnetization reversal in nanoporous perpendicular anisotropy multilayers. Journal of Applied Physics, 2013, 113, .	1.1	6
23	Interactions in Nanoscale Arrays of Soft Magnetic Bi-Layers. IEEE Transactions on Magnetics, 2008, 44, 2722-2725.	1.2	3
24	Fe-Core/Au-Shell Nanoparticles: Growth Mechanisms, Oxidation and Aging Effects. Materials Research Society Symposia Proceedings, 2005, 887, 1.	0.1	2
25	Effective anisotropy gradient in pressure graded [Co/Pd] multilayers. Journal of Applied Physics, 2015, 117, 063905.	1.1	2
26	Effect of hard layer demagnetization on the magnetization reversal of epitaxial Fe/SmCo spring magnets. , 2006, , .		0
27	First-Order Reversal Curve Studies of Magnetization Reversal in Prototype Recording Media. , 2006, , .		0