

# Alejandro Butera

## List of Publications by Year in descending order

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115  
papers

2,264  
citations

279701

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116  
all docs

116  
docs citations

116  
times ranked

2279  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature spin dynamics in CMR manganites: ESR and magnetization. Physical Review B, 1998, 58, 3233-3239.	1.1	249
2	Metal-insulator transition in oxygen-deficient $\text{LaNiO}_{3-x}$ perovskites. Physical Review B, 1996, 54, 16574-16578.	1.1	119
3	Magnetic interactions and magnon gap in the ferromagnetic superconductor $\text{RuSr}_2\text{GdCu}_2\text{O}_8$ . Physical Review B, 1999, 60, R12597-R12600.	1.1	118
4	Ferromagnetic correlations and mixed Ru valence in the magnetic superconductor $\text{RuSr}_2(\text{Eu,Gd})\text{Cu}_2\text{O}_8$ . Physical Review B, 2001, 63, .	1.1	103
5	Evidence of strong antiferromagnetic coupling between localized and itinerant electrons in ferromagnetic $\text{Sr}_2\text{FeMoO}_6$ . Physical Review B, 2002, 66, .	1.1	91
6	Double-exchange interaction in electron-doped $\text{CaMnO}_3$ perovskites. Physical Review B, 1996, 53, 14020-14023.	1.1	80
7	ESR and magnetization in Jahn-Teller-distorted $\text{LaMnO}_3$ : Correlation with crystal structure. Physical Review B, 1999, 60, 10199-10205.	1.1	71
8	Magnetic domain crossover in FePt thin films. Physical Review B, 2010, 82, .	1.1	69
9	Anisotropic Magnetoresistance and Piezoresistivity in Structured $\text{Fe}_3\text{O}_4$ -Silver Particles in PDMS Elastomers at Room Temperature. Langmuir, 2012, 28, 6985-6996.	1.6	66
10	Ferromagnetic resonance in as-deposited and annealed $\text{Fe}/\text{SiO}_2$ heterogeneous thin films. Physical Review B, 1999, 60, 12270-12278.	1.1	59
11	Crossover to striped magnetic domains in $\text{Fe}_{1-x}\text{Ga}_x$ magnetostrictive thin films. Applied Physics Letters, 2012, 101, 092404.	1.5	54
12	Magnetic and elastic properties of $\text{CoFe}_2\text{O}_4$ - polydimethylsiloxane magnetically oriented elastomer nanocomposites. Journal of Applied Physics, 2011, 110, 043920.	1.1	53
13	Growth and magnetic characterization of epitaxial $\text{Fe}_{81}\text{Ga}_{19}/\text{MgO}$ (100) thin films. Journal of Applied Physics, 2005, 98, 033901.	1.1	47
14	Depression of the weak-ferromagnetism of $\text{CuO}_2$ planes in $\text{Gd}_2\text{CuO}_4$ through Ce and Th doping. Physica C: Superconductivity and Its Applications, 1989, 160, 341-346.	0.6	44
15	Magnetic and elastic anisotropy in magnetorheological elastomers using nickel-based nanoparticles and nanochains. Journal of Applied Physics, 2013, 114, .	1.1	41
16	Fabrication and characterization of $\text{Fe}_{81}/\text{Ga}_{19}$ thin films. IEEE Transactions on Magnetics, 2002, 38, 2832-2834.	1.2	39
17	Spin-structure parameters in $\text{Ni}_{80}\text{Fe}_{20}\text{Ru}$ multilayers. Physical Review B, 2005, 72, 040401.	1.1	36
18	Structural and magnetotransport properties of $\text{LaMn}_{1-x}\text{Cr}_x\text{O}_3$ ( $0 \leq x \leq 0.15$ ): Evidence of $\text{Mn}^{3+}/\text{O}^{2-}/\text{Cr}^{3+}$ double-exchange interaction. Physical Review B, 2005, 72, .	1.1	34

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19	Surface anisotropy and resonance modes in $\text{Co}/\text{SiO}_2$ heterogeneous films. <i>Physical Review B</i> , 2004, 70, . Ferromagnetic resonance of epitaxial $\langle \text{mml:math altimg="si27.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevie.$	1.1	32
20	Effect of thermal fluctuations in FMR experiments in uniaxial magnetic nanoparticles: Blocked vs. superparamagnetic regimes. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 326, 138-146.	1.0	28
21	Effect of thermal fluctuations in FMR experiments in uniaxial magnetic nanoparticles: Blocked vs. superparamagnetic regimes. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 326, 138-146.	1.0	26
22	High coercivity nanostructured networks. <i>Journal of Applied Physics</i> , 1997, 81, 5467-5469.	1.1	25
23	Structural and physicochemical properties of nickel manganite $\text{NiMn}_2\text{O}_4$ synthesized by sol-gel and ultra sound assisted methods. <i>Journal of Alloys and Compounds</i> , 2016, 672, 307-316.	2.8	25
24	Electron spin resonance and magnetization in perovskite and pyrochlore manganites. <i>Journal of Applied Physics</i> , 1998, 83, 7201-7203.	1.1	23
25	Ferromagnetic resonance in arrays of highly anisotropic nanoparticles. <i>European Physical Journal B</i> , 2006, 52, 297-303.	0.6	23
26	Stripe domains in Permalloy films as observed by ferromagnetic resonance and magnetic force microscopy. <i>Physica B: Condensed Matter</i> , 2009, 404, 2784-2786.	1.3	23
27	High temperature susceptibility in electron doped $\text{Ca}_{1-x}\text{Y}_x\text{MnO}_3$ : double exchange versus superexchange. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 249-258.	0.7	22
28	Surface pinning in ferromagnetic films with perpendicular anisotropy. <i>Physical Review B</i> , 2011, 83, .	1.1	21
29	Shift in the magnetic percolation threshold of phase separated Co-rich $\text{CoAg}$ very thin films due to reduced dimensionality. <i>Journal of Applied Physics</i> , 1998, 83, 4855-4861.	1.1	19
30	Standing spin waves in granular $\text{Fe}/\text{SiO}_2$ thin films. <i>Journal of Applied Physics</i> , 2000, 87, 5627-5629.	1.1	19
31	Thickness and temperature dependence of the dynamic magnetic behavior in disordered $\text{FePt}$ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2941-2945.	1.0	19
32	Critical thickness for stripe domain formation in $\text{FePt}$ thin films: Dependence on residual stress. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	19
33	Raman study of $T_{\text{M}}$ -phase distortion in $\text{R}_2\text{CuO}_4$ compounds ( $\text{R}=\text{Nd, Sm, Eu, Gd}$ ). <i>Physical Review B</i> , 1993, 48, 7565-7569.	1.1	18
34	Thickness dependence of the magnetic percolation threshold in as-deposited and annealed $\text{Fe}/\text{SiO}_2$ granular thin films. <i>Journal of Applied Physics</i> , 1998, 84, 5693-5697.	1.1	18
35	Correlation between radiation damage and magnetic properties in reactor vessel steels. <i>Journal of Nuclear Materials</i> , 2014, 445, 57-62.	1.3	18
36	Nanostructured magnetic networks: a materials comparison. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 193, 515-518.	1.0	17

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37	Ferromagnetic Resonance of Disordered FePt Thin Films. IEEE Transactions on Magnetism, 2008, 44, 2883-2886.	1.2	17
38	Relaxation dynamics of ferromagnetic FePt thin films in a broad frequency range. Journal Physics D: Applied Physics, 2013, 46, 505001.	1.3	17
39	Activation volumes and interparticle interaction effects in nanostructured Fe networks. Journal of Applied Physics, 1997, 81, 7432-7436.	1.1	16
40	Correlation between magnetic interactions and domain structure in Al FePt ferromagnetic thin films. Journal of Applied Physics, 2014, 115, .	1.1	16
41	Strain effects on the magnetic order of epitaxial FeRh thin films. Journal of Applied Physics, 2018, 124, .	1.1	16
42	Self-assembled arrays of high anisotropy FePt@Au nanoparticles. Physica B: Condensed Matter, 2004, 354, 108-112.	1.3	15
43	Thickness dependence of the magnetoelectric coupling in $\text{Fe}_{1-x}\text{Co}_x/\text{PbTiO}_3$ heterostructures. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> $\text{Fe}_{1-x}\text{Co}_x/\text{PbTiO}_3$		
44	Effects of oxidation and abnormal grain growth on the magnetic properties of thin Fe@SiO <sub>2</sub> granular films. Journal of Applied Physics, 1999, 85, 6151-6153.	1.1	14
45	Microwave response of anisotropic magnetorheological elastomers: Model and experiments. Physical Review B, 2012, 86, .	1.1	14
46	Determination of Gd concentration profile in UO <sub>2</sub> @Gd <sub>2</sub> O <sub>3</sub> fuel pellets. Journal of Nuclear Materials, 2014, 451, 207-210.	1.3	14
47	Thermal stabilization of magnetic nanoparticles embedded in a ferromagnetic matrix. Nanotechnology, 2007, 18, 115714.	1.3	13
48	Abnormal temperature dependence of the coercive field in FePt thin films. Journal of Magnetism and Magnetic Materials, 2013, 347, 61-67.	1.0	13
49	Tunable stress induced magnetic domain configuration in FePt thin films. Journal Physics D: Applied Physics, 2015, 48, 405003.	1.3	13
50	Effect of annealing on nanostructured Fe networks. IEEE Transactions on Magnetism, 1997, 33, 3628-3630.	1.2	12
51	Temperature dependence of the coercivity of Fe films sputtered on nanochannel alumina. IEEE Transactions on Magnetism, 1998, 34, 1024-1026.	1.2	12
52	Magnetic anisotropy in Fe <sub>81</sub> Ga <sub>19</sub> /MgO (100) films sputtered at different powers. Physica B: Condensed Matter, 2006, 384, 262-264.	1.3	12
53	ESR of double-perovskite Sr <sub>2</sub> FeMoO <sub>6</sub> . Physica B: Condensed Matter, 2002, 320, 79-82.	1.3	11
54	Magnetic phase coexistence in CMR manganites: ESR evidence. Physica B: Condensed Matter, 2004, 354, 55-58.	1.3	11

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55	Ferromagnetic coupled modes in continuous/granular multilayers: Model and experiments. Physical Review B, 2007, 76, .	1.1	11
56	Angular and frequency dependence of standing spin waves in FePt films. Journal of Applied Physics, 2012, 111, .	1.1	11
57	In-plane magnetization anisotropy in Gd <sub>2</sub> CuO <sub>4</sub> single crystals. Physical Review B, 1995, 52, 13444-13449.	1.1	10
58	Stable charge storage in granular thin films. Applied Physics Letters, 2005, 86, 074105.	1.5	10
59	dc magnetization measurements in Eu <sub>2</sub> CuO <sub>4</sub> :Gd <sup>3+</sup> . Journal of Applied Physics, 1993, 73, 5680-5682.	1.1	9
60	Field-induced spin reorientation in Eu <sub>2</sub> CuO <sub>4</sub> :Gd studied by magnetic resonance. Physical Review B, 1993, 48, 16775-16784.	1.1	9
61	EPR and magnetization of Gd <sub>2</sub> BaNiO <sub>5</sub> . Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1681-1682.	1.0	9
62	Magnetic resonance in RuSr <sub>2</sub> RECu <sub>2</sub> O <sub>8</sub> (RE=Eu, Gd) ferromagnetic superconductor. Journal of Applied Physics, 2001, 89, 7666-7668.	1.1	9
63	Order-disorder transformation in FePt nanoparticles studied by ferromagnetic resonance. Applied Surface Science, 2007, 254, 274-277.	3.1	9
64	Suppression of weak ferromagnetism in small particles of Gd <sub>2</sub> CuO <sub>4</sub> . Europhysics Letters, 1996, 34, 623-628.	0.7	8
65	Magnetoelectric control of spin currents. Applied Physics Letters, 2016, 108, .	1.5	8
66	Magnetic coupling of stripe domains in FePt/Ni <sub>80</sub> Fe <sub>20</sub> bilayers. Journal Physics D: Applied Physics, 2017, 50, 115001.	1.3	8
67	Controlling the crystalline and magnetic texture in sputtered $\text{Fe}_{0.89}\text{Ni}_{0.11}\text{O}_4$ . Journal of Magnetism and Magnetic Materials, 2019, 483, 143-151.	1.0	8
68	Magnetism and Jahn-Teller distortions in. Physica B: Condensed Matter, 2000, 284-288, 1408-1409.	1.3	7
69	Effective Ru moment in RuSr <sub>2</sub> Eu <sub>1-x</sub> Ce <sub>x</sub> Cu <sub>2</sub> O <sub>10</sub> from high-temperature magnetic susceptibility. Physica B: Condensed Matter, 2002, 320, 316-318.	1.3	7
70	Magnetic-resonance modes for Eu <sub>2-x</sub> Gd <sub>x</sub> CuO <sub>4</sub> , a compound with coupled paramagnetic-weak-ferromagnetic excitations. Physical Review B, 1994, 50, 16708-16717.	1.1	6
71	Coupling of Fe thin films through a granular magnetic layer. Journal of Applied Physics, 2006, 100, 053908.	1.1	6
72	Strategies to increase austenite FCC relative phase stability in High-Mn steels. Journal of Alloys and Compounds, 2021, 854, 156971.	2.8	6

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73	Ferromagnetic resonance line width in $\text{Co}(x)\text{SiO}_2(1-x)$ granular films. <i>Physica B: Condensed Matter</i> , 2004, 354, 145-148.	1.3	5
74	High performance electronic device for the measurement of the inverse spin Hall effect. <i>Review of Scientific Instruments</i> , 2016, 87, 024705.	0.6	5
75	Spin pumping and inverse spin Hall effect in antiferromagnetic exchange coupled [Co/Ru/Co]/Pt heterostructures. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	5
76	Magnetic interactions in Fe films sputtered on nanochannel alumina. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 3604-3606.	1.2	4
77	Interplanar coupling between $\text{CuO}_2$ planes in $\text{Eu}_{1.9}\text{Y}_{0.1}\text{CuO}_4$ single crystals. <i>Physica B: Condensed Matter</i> , 1997, 233, 241-250.	1.3	4
78	Magnetic order and weak ferromagnetic transition in $\text{Gd}_2\text{CuO}_4$ . <i>Journal of Applied Physics</i> , 2000, 87, 5911-5913.	1.1	4
79	Magnetic and transport properties of $\text{Ag}_{1-x}\text{Co}_x\text{Fe}_{10}$ granular multilayers. <i>Journal of Applied Physics</i> , 2004, 96, 7392-7398.	1.1	4
80	Pure spin current manipulation in antiferromagnetically exchange coupled heterostructures. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	4
81	A dual natural lithium formate/L-alanine EPR dosimeter for a mixed radiation field in a boron neutron capture therapy irradiation facility. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 165001.	1.3	4
82	Magnetocrystalline origin of the perpendicular magnetic anisotropy in Ga-poor FeGa thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 535, 168047.	1.0	4
83	Nanostructured Fe networks studied by ferromagnetic resonance. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 3044-3046.	1.2	3
84	Magnetic coupling in $\text{Fe}/\text{Sm}/\text{Fe}/\text{Ta}/\text{N}$ multilayers. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 2682-2684.	1.2	3
85	Dissipation in Mesoscopic Superconductors with Ac Magnetic Fields. <i>Journal of Low Temperature Physics</i> , 2004, 135, 119-122.	0.6	3
86	Dynamic response of magnetic nanoparticles arranged in a tubular shape. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e218-e221.	1.0	3
87	Magnetolectric tuning of the inverse spin-Hall effect. <i>AIP Advances</i> , 2017, 7, .	0.6	3
88	Influence of argon pressure on the structural properties of polycrystalline sputtered $\text{Fe}_{0.89}\text{Ga}_{0.11}$ thin films. <i>Materials Characterization</i> , 2021, 171, 110790.	1.9	3
89	High spin pumping efficiency in $\text{Fe}_{80}\text{Co}_{20}/\text{Ta}$ bilayers. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 325002.	1.3	3
90	Ab initio study of FeRh multilayers supported on $\text{MgO}(0001)$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166488.	1.0	3

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91	Electric field control of magnetism in FePt/PMN-PT heterostructures. Journal of Magnetism and Magnetic Materials, 2022, 544, 168619.	1.0	3
92	Double exchange interaction in CaMnO <sub>3</sub> . European Physical Journal D, 1996, 46, 2013-2014.	0.4	2
93	Weak ferromagnetic resonance of Gd <sub>2</sub> CuO <sub>4</sub> small particles. Journal of Applied Physics, 1996, 79, 8612-8614.	1.1	2
94	High coercivity in heterogeneous Co-rich CoAg very thin films. IEEE Transactions on Magnetics, 1998, 34, 1114-1116.	1.2	2
95	Film thickness dependence of the magnetic resonance in Fe/SiO <sub>2</sub> nanocomposites. Physica B: Condensed Matter, 2002, 320, 181-184.	1.3	2
96	Interplay of structure and magnetism in ruthenocuprates: a Raman scattering and dilatometry study. Physica B: Condensed Matter, 2002, 320, 322-325.	1.3	2
97	Effect of magneto-structural phase coexistence in MnAs on the magnetic behavior of MnAs/Fe bilayers. Journal of Magnetism and Magnetic Materials, 2008, 320, e408-e411.	1.0	2
98	Relaxation mechanisms in ultra-low damping Fe <sub>80</sub> Co <sub>20</sub> thin films. Journal of Magnetism and Magnetic Materials, 2020, 504, 166692.	1.0	2
99	Spin rectification by planar Hall effect in synthetic antiferromagnets. Journal of Magnetism and Magnetic Materials, 2022, 560, 169614.	1.0	2
100	Gd concentration dependence of the spin reorientation critical field in Eu <sub>2-<i>x</i></sub> Gd <sub><i>x</i></sub> CuO <sub>4</sub> . Journal of Applied Physics, 1996, 79, 6577.	1.1	1
101	Coupling of CuO <sub>2</sub> planes in Eu <sub>2-<i>x</i></sub> Y <sub><i>x</i></sub> CuO <sub>4</sub> single crystals. European Physical Journal D, 1996, 46, 2697-2698.	0.4	1
102	Ferromagnetic resonance of permalloy artificially nanostructured films. IEEE Transactions on Magnetics, 2001, 37, 2213-2215.	1.2	1
103	Ferromagnetic films deposited on nanochannel alumina. Granular Matter, 2001, 3, 93-96.	1.1	1
104	Magnetization and specific heat of La doped Sr <sub>2</sub> FeMoO <sub>6</sub> . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 857-858.	1.0	1
105	Magnetic coupling in Fe/Fe/SiO <sub>2</sub> /Ni <sub>80</sub> Fe <sub>20</sub> thin films. Physica B: Condensed Matter, 2006, 384, 126-128.	1.3	1
106	Angular dependence of the ferromagnetic resonance spectrum in continuous/heterogeneous multilayers. Journal of Magnetism and Magnetic Materials, 2008, 320, e239-e241.	1.0	1
107	<i>v</i> -MOKE magnetometry: a solution for devices with fixed electromagnet. Measurement Science and Technology, 2020, 31, 117001.	1.4	1
108	Magnetic Interactions In Fe Films Sputtered On Nanochannel Alumina. , 0, , .		0

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109	Interparticle Interaction Effects in Nonmiscible CoAg Thin Films With High Co Concentration. Materials Research Society Symposia Proceedings, 1998, 517, 349.	0.1	0
110	Nanostructured Fe networks studied by ferromagnetic resonance. , 0, , .		0
111	Fabrication and characterization of Fe/sub 81/Ga/sub 19/ thin films. , 0, , .		0
112	Magnetization reversal processes in FeSm thin films. Physica B: Condensed Matter, 2002, 320, 253-256.	1.3	0
113	Magnetic coupling in Fe/sub 60/Sm/sub 40//Fe/sub 95/Ta/sub 5/N/sub x/ multilayers. , 0, , .		0
114	X-LAW3M 2013 Publication Chair Preface. IEEE Transactions on Magnetism, 2013, 49, 4486-4487.	1.2	0
115	Magnetoelasticity of $\text{Fe}_{1-x}\text{Ga}_x$ thin films on amorphous substrates. Physical Review B, 2021, 104, .		0