Dario A Arena

List of Publications by Year
in descending order

57 papers	2,402 citations	279487 23 h-index	197535 49 g-index
57 all docs	57 docs citations	57 times ranked	4564 citing authors

#	Article	IF	Citations
1	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	16.4	672
2	Oxygen-defect-induced magnetism to 880 K in semiconducting anatase TiO2â^'Î´ films. Journal of Physics Condensed Matter, 2006, 18, L355-L361.	0.7	256
3	Beating the Stoner criterion using molecular interfaces. Nature, 2015, 524, 69-73.	13.7	151
4	Hidden Magnetic Configuration in Epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi> Physical Review Letters, 2010, 105, 257204.	2.9	100
5	<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> probed by x-ray magnetic spectroscopies. Physical Review B, 2011, 84, .	1.1	74
6	Exploring the Structural and Electronic Properties of Pt/Ceria-Modified TiO₂ and Its Photocatalytic Activity for Water Splitting under Visible Light. Journal of Physical Chemistry C, 2012, 116, 14062-14070.	1.5	69
7	Nature of the metal-insulator transition in few-unit-cell-thick LaNiO3 films. Nature Communications, 2018, 9, 2206.	5.8	66
8	Stability of the M2 phase of vanadium dioxide induced by coherent epitaxial strain. Physical Review B, 2016, 94, .	1.1	62
9	Precessional dynamics of elemental moments in a ferromagnetic alloy. Physical Review B, 2004, 70, .	1.1	58
10	Weakly coupled motion of individual layers in ferromagnetic resonance. Physical Review B, 2006, 74, .	1.1	54
11	Interface Induced Uniaxial Magnetic Anisotropy in Amorphous CoFeB Films on AlGaAs(001). Physical Review Letters, 2008, 100, 117201.	2.9	54
12	Compensated Ferrimagnetism in the Zero-Moment Heusler Alloy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Ga Physical Review Applied, 2017, 7, .	1.5	52
13	Direct dynamic imaging of non-adiabatic spin torque effects. Nature Communications, 2012, 3, 1028.	5.8	51
14	Surface-induced spin state locking of the [Fe(H₂B(pz)₂)₂(bipy)] spin crossover complex. Journal of Physics Condensed Matter, 2016, 28, 206002.	0.7	50
15	Structural evidence for stabilized ferromagnetism in epitaxial FeRh nanoislands. Journal Physics D: Applied Physics, 2013, 46, 162002.	1.3	49
16	Cation-disorder-enhanced magnetization in pulsed-laser-deposited CuFe2O4 films. Applied Physics Letters, 2005, 86, 252510.	1.5	39
17	Detection of microwave phase variation in nanometre-scale magnetic heterostructures. Nature Communications, 2013, 4, 2025.	5.8	38
18	Unoccupied electronic states of the Cs/Cu(100) and Cs/Cu(111) adsorption systems. Physical Review B, 1997, 56, 15404-15411.	1.1	35

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19	A compact apparatus for studies of element and phase-resolved ferromagnetic resonance. Review of Scientific Instruments, 2009, 80, 083903.	0.6	35
20	Lone-Pair Stabilization in Transparent Amorphous Tin Oxides: A Potential Route to p-Type Conduction Pathways. Chemistry of Materials, 2016, 28, 4706-4713.	3.2	33
21	Observation of a temperature dependent asymmetry in the domain structure of a Pd-doped FeRh epilayer. New Journal of Physics, 2014, 16, 113073.	1.2	29
22	Enhanced magnetic moment in ultrathin Fe-doped CoFe<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>films. Physical Review B, 2012, 86, .	1.1	27
23	Surface influenced magnetostructural transition in FeRh films. Applied Physics Letters, 2009, 95, 222515.	1.5	26
24	Phase Coexistence and Kinetic Arrest in the Magnetostructural Transition of the Ordered Alloy FeRh. Scientific Reports, 2018, 8, 1778.	1.6	25
25	X-Ray Spectroscopy of Ultra-Thin Oxide/Oxide Heteroepitaxial Films: A Case Study of Single-Nanometer VO2/TiO2. Materials, 2015, 8, 5452-5466.	1.3	23
26	Reducing orbital occupancy in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml suppresses Mott physics while Peierls distortions persist. Physical Review B, 2017, 96, .	1.1	23
27	Epitaxial strain-induced changes in the cation distribution and resistivity of Fe-doped CoFe2O4. Applied Physics Letters, 2012, 101, .	1.5	21
28	Atomic moments in Mn2CoAl thin films analyzed by X-ray magnetic circular dichroism. Journal of Applied Physics, 2014, 116, .	1.1	21
29	Comparison of time-resolved x-ray magnetic circular dichroism measurements in reflection and transmission for layer-specific precessional dynamics measurements. Journal of Applied Physics, 2006, 99, 08J305.	1.1	20
30	A method for determining intrinsic shapes of overlapping spectral lines in Auger-photoelectron coincidence spectroscopy. Review of Scientific Instruments, 2000, 71, 1781-1787.	0.6	19
31	Transmission-mode x-ray magnetic circular dichroism characterization of moment alignment in Tb-doped Ni81Fe19. Journal of Applied Physics, 2005, 97, 10A719.	1.1	14
32	Interfaceâ€Coupled BiFeO₃/BiMnO₃ Superlattices with Magnetic Transition Temperature up to 410 K. Advanced Materials Interfaces, 2016, 3, 1500597.	1.9	14
33	Nonreciprocal spin pumping damping in asymmetric magnetic trilayers. Physical Review B, 2020, 101, .	1.1	13
34	Tunable competing magnetic anisotropies and spin reconfigurations in ferrimagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>100</mml:m alloy films. Physical Review B, 2021, 104, .	1.1	13
35	Control of hidden ground-state order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>NdNi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> superlattices. Physical Review Materials, 2017, 1, .	0.9	12
36	Spin Seebeck Effect in Iron Oxide Thin Films: Effects of Phase Transition, Phase Coexistence, And Surface Magnetism. ACS Applied Materials & Interfaces, 2022, 14, 13468-13479.	4.0	11

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37	Quantifying Spin-Mixed States in Ferromagnets. Physical Review Letters, 2021, 127, 207201.	2.9	10
38	Giant Coster-Kronig Transitions and Intrinsic Line Shapes of the Anomalous PdM45VVAuger Spectrum ofPd/Ag(100)Dilute Surface Alloys. Physical Review Letters, 2003, 91, 176403.	2.9	9
39	Magnetic coupling in asymmetric FeCoV/Ru/FeNi trilayers. Journal of Applied Physics, 2014, 115, .	1.1	9
40	Magnetostructural influences of thin Mg insert layers in crystalline CoFe(B)/MgO/CoFe(B) magnetic tunnel junctions. Applied Physics Letters, 2010, 97, .	1.5	8
41	Exploring the accessible frequency range of phase-resolved ferromagnetic resonance detected with x-rays. Journal of Applied Physics, 2013, 113, 033904.	1.1	8
42	Direct observation of symmetry-specific precession in a ferrimagnet. Physical Review B, 2015, 92, .	1.1	7
43	Room temperature magnetic stabilization of buried cobalt nanoclusters within a ferromagnetic matrix studied by soft x-ray magnetic circular dichroism. Applied Physics Letters, 2008, 93, .	1.5	6
44	Ion-beam-induced sharpening of ZnO nanotips. Applied Physics Letters, 2004, 85, 1247-1249.	1.5	4
45	Anomalous thickness dispersion of unoccupied states in the Cu/Ni/Cu(100) metallic quantum well system. Physica Status Solidi (B): Basic Research, 2004, 241, 2358-2362.	0.7	4
46	Resonant x-ray scattering from a magnetic multilayer reflection grating. Applied Physics Letters, 2005, 86, 112502.	1.5	4
47	Diamond-like-carbon LC-alignment layers for application in LCOS microdisplays. Journal of the Society for Information Display, 2005, 13, 281.	0.8	4
48	Reversed remanent magnetic configuration in epitaxial La1âˆ’xSrxMnO3films. Journal Physics D: Applied Physics, 2011, 44, 245002.	1.3	4
49	Symmetry breaking of magnetic vortices before annihilation. Applied Physics Letters, 2014, 105, 132403.	1.5	4
50	Element specific separation of bulk and interfacial magnetic hysteresis loops. Applied Physics Letters, 2007, 91, 132510.	1.5	3
51	Structural studies of magnetic C60/Cu multilayers. AIP Advances, 2020, 10, 025312.	0.6	3
52	Perpendicular and in-plane hole asymmetry in a strained NiFe₂O₄ film. Journal of Physics Condensed Matter, 2021, 33, 225801.	0.7	3
53	The local structural characterization of the inactive clusters in B, BF2 and BF3 implanted Si wafers using X-ray techniques. Microelectronics Journal, 2005, 36, 522-526.	1.1	1
54	Optical and extreme UV studies of spin dynamics in metallic and insulating ferrimagnets. Journal of Applied Physics, 2021, 130, 240901.	1.1	1

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55	Enhanced optical mode coherence in exchange coupled soft magnetic multilayers. Journal of Applied Physics, 2022, 131, .	1.1	1
56	Dynamic monitoring of grating angle at the National Synchrotron Light Source. Optical Engineering, 2009, 48, 113603.	0.5	0
57	Shining a Light on Hidden Spin Dynamics. Physics Magazine, 2020, 13, .	0.1	0