RamÃ³n Cuadrado

List of Publications by Year
in descending order

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28	686	759233 12	552781 26
papers	citations	h-index	g-index

28	28	28	1129
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	S<scp>iesta</scp>: Recent developments and applications. Journal of Chemical Physics, 2020, 152, 204108.	3.0	229
2	CoPc adsorption on Cu(111): Origin of the C4 to C2 symmetry reduction. Journal of Chemical Physics, 2010, 133, 154701.	3.0	61
3	Strain Induced Vortex Core Switching in Planar Magnetostrictive Nanostructures. Physical Review Letters, 2015, 115, 067202.	7.8	52
4	Fully relativistic pseudopotential formalism under an atomic orbital basis: spinâ€“orbit splittings and magnetic anisotropies. Journal of Physics Condensed Matter, 2012, 24, 086005.	1.8	50
5	Voltageâ€Induced Coercivity Reduction in Nanoporous Alloy Films: A Boost toward Energyâ€Efficient Magnetic Actuation. Advanced Functional Materials, 2017, 27, 1701904.	14.9	41
6	Graphene-based synthetic antiferromagnets and ferrimagnets. Nature Communications, 2017, 8, 699.	12.8	39
7	Exchange coupling and magnetic anisotropy at Fe/FePt interfaces. Physical Review B, 2013, 88, .	3.2	31
8	Magnetic anisotropy of Fe1â^'yXyPt-L1 [Xâ€‰=â€‰Cr, Mn, Co, Ni, Cu] bulk alloys. Applied Physics Letters, 2014, 105, .	3.3	25
9	Electronic and magnetic properties of bimetallic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>0</mml:mn></mml:msub></mml:mr clusters by means of fully relativistic density-functional-based calculations. Physical Review B, 2012, 86, .	3.2	24
10	Anisotropic polymer bonded hard-magnetic films for microelectromechanical system applications. Journal of Applied Physics, 2006, 99, 08N303.	2.5	17
11	C60adsorption on theSi(111)-p(7Ã—7)surface: A theoretical study. Physical Review B, 2010, 81, .	3.2	15
12	Interface magnetic moments enhancement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>FePt</mml:mi><mml:mo>â^'</mml:mo><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>0</mml:mn></mml:msub></mml:math>/MgO(001): Anab initiostudy. Physical Review B, 2014, 89, .	3.2	14
13	Implementation of non-collinear spin-constrained DFT calculations in SIESTA with a fully relativistic Hamiltonian. JPhys Materials, 2018, 1, 015010.	4.2	11
14	A first principles study of thiol-capped Au nanoparticles: Structural, electronic, and magnetic properties as a function of thiol coverage. Journal of Chemical Physics, 2013, 139, 034319.	3.0	10
15	Modeling spin injection across diffuse interfaces. Physical Review B, 2013, 87, .	3.2	10
16	Validity of the on-site spin-orbit coupling approximation. Physical Review B, 2021, 104, .	3.2	9
17	First-principles study of the Feâ€‰|â€‰MgO(0 0 1) interface: magnetic anisotropy. Journal of Physics Condensed Matter, 2016, 28, 156003.	1.8	8
18	In-plane/out-of-plane disorder influence on the magnetic anisotropy of Fe1â^'yMnyPt-L10 bulk alloy. Applied Physics Letters, 2016, 108, 123102.	3.3	6

#	Article	IF	Citations
19	Site-Resolved Contributions to the Magnetic-Anisotropy Energy and Complex Spin Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Fe</mml:mi><mml:mo>/</mml:mo><mml:mi>MgO</mml:mi></mml:mrow></mml:math> Sandwiches. Physical Review Applied, 2018, 9, .	3.8	6
20	Crystallization and magnetic hardening of SmCo thin films. Journal of Non-Crystalline Solids, 2007, 353, 786-789.	3.1	5
21	Magnetic properties of ball-milled Fe0.6Mn0.1Al0.3 alloys. Journal of Magnetism and Magnetic Materials, 2007, 316, e418-e421.	2.3	5
22	First principles and atomistic calculation of the magnetic anisotropy of Y2Fe14B. Journal of Applied Physics, 2021, 130, .	2.5	5
23	Temperature dependence of the magnetic properties in LaMnO3+Î´. Journal of Applied Physics, 2006, 99, 08A702.	2.5	4
24	Multiscale modeling of spin transport across a diffuse interface. Journal of Magnetism and Magnetic Materials, 2017, 443, 287-292.	2.3	4
25	Polymer Bonded Anisotropic Thick Hard Films for Micromotors/Microgenerators. Journal of Iron and Steel Research International, 2006, 13, 240-251.	2.8	2
26	Interaction potential of FePt with the MgO(001) surface. Physical Review B, 2015, 91, .	3.2	2
27	A multiscale model of the effect of Ir thickness on the static and dynamic properties of Fe/Ir/Fe films. Scientific Reports, 2018, 8, 3879.	3.3	1
28	Guidelines for Selecting Interlayer Spacers in Synthetic 2D-Based Antiferromagnets from First-Principles Simulations. Nanomaterials, 2019, 9, 1764.	4.1	0