Jose Varalda

List of Publications by Year
in descending order

53 papers	798 citations	516710 16 h-index	526287 27 g-index
53 all docs	53 docs citations	53 times ranked	1180 citing authors

#	Article	IF	Citations
1	Dilute-defect magnetism: Origin of magnetism in nanocrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CeO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2009, 80, .	3.2	129
2	Room temperature ferromagnetism in Co-dopedCeO2films on Si(001). Physical Review B, 2007, 75, .	3.2	61
3	Ferromagnetism induced by oxygen and cerium vacancies above the percolation limit in CeO₂. Journal of Physics Condensed Matter, 2010, 22, 216004.	1.8	59
4	Magnetic response of cobalt nanowires with diameter below 5 nm. Physical Review B, 2010, 82, .	3.2	40
5	Enhancement of critical temperature and phases coexistence mediated by strain in MnAs epilayers grown onGaAs(111)B. Physical Review B, 2004, 70, .	3.2	37
6	Tuning Fe 3 O 4 nanoparticle dispersion through pH in PVA/guar gum/electrospun membranes. Carbohydrate Polymers, 2015, 134, 775-783.	10.2	33
7	Valence Evaluation of Cerium in Nanocrystalline CeO₂Films Electrodeposited on Si Substrates. Journal of the Electrochemical Society, 2011, 159, K27-K33.	2.9	31
8	Structural, magnetic and spectroscopic study of a diluted magnetic oxide: Co doped CeO2â^'Î´. Journal of Physics Condensed Matter, 2008, 20, 125222.	1.8	27
9	Oxygen-vacancy-induced room-temperature magnetization in lamellar V2O5 thin films. Journal of Applied Physics, 2014, 116, .	2.5	26
10	Loss of magnetization induced by doping in CeO2 films. Journal of Applied Physics, 2011, 110, .	2.5	24
11	Resonant tunnel magnetoresistance in epitaxial metal-semiconductor heterostructures. Physical Review B, 2005, 72, .	3.2	23
12	Structural and magnetic anisotropies ofFeâ^•ZnSe(001)thin films. Physical Review B, 2004, 70, .	3.2	21
13	Goethite (Î±-FeOOH) magnetic transition by ESR, Magnetometry and MÃ¶ssbauer. Materials Chemistry and Physics, 2016, 173, 179-185.	4.0	20
14	Wettability effect of graphene-based surfaces on silicon carbide and their influence on hydrophobicity of nanocrystalline cerium oxide films. Journal of Colloid and Interface Science, 2015, 441, 71-77.	9.4	19
15	Oxygen diffusion and vacancy migration thermally-activated govern high-temperature magnetism in ceria. Scientific Reports, 2019, 9, 4708.	3.3	19
16	Anisotropy of Magnetization and Nanocrystalline Texture in Electrodeposited CeO[sub 2] Films. Electrochemical and Solid-State Letters, 2011, 14, P9.	2.2	18
17	Laser irradiation of iron, cobalt, and nickel targets in liquid nitrogen: AÂfacile approach for nitride nanoparticle fabrication of ferromagnetic transition metals. Journal of Alloys and Compounds, 2017, 725, 519-525.	5.5	17
18	Tetragonal zinc-blende MnGa ultra-thin films with high magnetization directly grown on epi-ready GaAs(111) substrates. Applied Physics Letters, 2013, 102, .	3.3	15

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19	Tunnel magnetoresistance and Coulomb blockade in a planar assembly of cobalt nanoclusters embedded in TiO2. Journal of Applied Physics, 2007, 101, 014318.	2.5	14
20	Structure and Magnetism of MnGa Ultra-Thin Films on GaAs(111)B. IEEE Transactions on Magnetics, 2013, 49, 5595-5598.	2.1	12
21	Manganeseâ€‘germanium nanostructure formation on the GaAs(111)â€“(1â€¯Ã—â€¯1)A surface: Stability and magnetic properties. Applied Surface Science, 2019, 491, 147-153.	6.1	10
22	Correlation between tetragonal zinc-blende structure and magnetocrystalline anisotropy of MnGa epilayers on GaAs(111). Journal of Magnetism and Magnetic Materials, 2015, 381, 83-88.	2.3	9
23	Initial stages of the epitaxial growth of MnN on the GaAs (001)-(2â€¯Ã—â€¯2) surface: First-principle study. Applied Surface Science, 2019, 489, 639-647.	6.1	9
24	Growth and magnetic properties of MnAs epitaxied on GaAs(111)B. Journal of Applied Physics, 2006, 100, 093524.	2.5	8
25	Local order and the dependence of magnetization on Co content in V2O5 layered films. Journal of Applied Physics, 2015, 118, .	2.5	8
26	Single-step formation of Cr 2 N nanoparticles by pulsed laser irradiation. Journal of Applied Physics, 2019, 125, 024301.	2.5	8
27	Magnetism and tunnelling magnetoresistance of Fe nanoparticles embedded in ZnSe epilayers. Journal Physics D: Applied Physics, 2007, 40, 2421-2424.	2.8	7
28	The role of magnetoelastic and magnetostrictive energies in the magnetization process of MnAs/GaAs epilayers. Journal of Physics Condensed Matter, 2013, 25, 046003.	1.8	7
29	Room temperature ferromagnetism in oxygen-deficient gallium oxide films with cubic spinel structure. Materials Chemistry and Physics, 2022, 287, 126320.	4.0	7
30	Magnetic behavior of Fe(001)/ZnSe(001)/Fe(001) sandwiches grown on ZnSe(001) epilayer on GaAs(001). Physica B: Condensed Matter, 2002, 322, 312-314.	2.7	6
31	Thermal enhancement of the antiferromagnetic exchange coupling between Fe epilayers separated by a crystalline ZnSe spacer. Journal of Physics Condensed Matter, 2006, 18, 9105-9118.	1.8	6
32	Planar assembly of monodisperse metallic cobalt nanoparticles embedded in TiO2âˆ’Î´matrix. Journal of Physics Condensed Matter, 2007, 19, 116205.	1.8	6
33	Mn Adsorption on the GaAs(111)â€“(2Ã—2)B Surface: First Principles Studies. Zeitschrift Fur Physikalische Chemie, 2016, 230, 943-954.	2.8	6
34	Spin-dependent resonant quantum tunneling between magnetic nanoparticles on a macroscopic length scale. Physical Review B, 2011, 83, .	3.2	5
35	Stabilization of perpendicular magnetic anisotropy in CeO₂ films deposited on Co/Pt multilayers. RSC Advances, 2016, 6, 56785-56789.	3.6	5
36	Spin disorder effect in anomalous Hall effect in MnGa. Journal of Magnetism and Magnetic Materials, 2017, 443, 165-170.	2.3	5

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37	Strain-induced magnetization changes and magneto-volume effects in ferromagnets with cubic symmetry. Journal of Magnetism and Magnetic Materials, 2019, 475, 539-543.	2.3	5
38	Effect of wavelength and fluence in laser-induced iron nitride nanostructures. Journal of Alloys and Compounds, 2021, 856, 157392.	5.5	5
39	Magnetic domains in rolled-up nanomembranes of Co/Pt multilayers with perpendicular magnetic anisotropy. RSC Advances, 2014, 4, 8410.	3.6	4
40	Study of thermally activated reaction between Mn and GaAs(111) surface. Thin Solid Films, 2014, 570, 57-62.	1.8	4
41	Exchange-bias reversal in Mn 2âˆ’x Ni 1+x Ga films with antisite disorder. Intermetallics, 2017, 91, 22-30.	3.9	4
42	Magnetoresistance in granular magnetic tunnel junctions with Fe nanoparticles embedded in ZnSe semiconducting epilayer. Journal of Applied Physics, 2008, 103, 123714.	2.5	3
43	Chromium nanostructure formation on the GaAs(1â€¯1â€¯1)â€“(2â€¯Ã—â€¯2) surface: First principles studies. Applied Surface Science, 2018, 455, 1078-1085.	6.1	3
44	Non-conventional ferromagnetism and high bias magnetoresistance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">TiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn><mml:mo>-</mml:mo><mml:mi>x</mml:mi></ A simple phenomenological approach. Journal of Magnetism and Magnetic Materials, 2020, 497, 166068.	2.3	3
45	Mn5Ge3 ultra-thin films on GaAs (111)B substrates: Influence of initial growth conditions. Superlattices and Microstructures, 2020, 148, 106745.	3.1	3
46	Martensite transformations in Mn2NiGa thin films grown on GaAs substrates. Journal Physics D: Applied Physics, 2016, 49, 465002.	2.8	2
47	Interplay between magnetic moment and magnetocrystalline anisotropy in tetragonally distorted galfenol films. Journal of Applied Physics, 2021, 129, 173902.	2.5	2
48	Magnetic and structural properties of Mn5+xGe3+y thin films as a function of substrate orientation. Journal of Magnetism and Magnetic Materials, 2021, 539, 168325.	2.3	2
49	Monte Carlo simulations of magnetization state of ellipsoidal CoCu particles in disordered self-assembled arrays. Journal of Materials Research, 2016, 31, 2058-2064.	2.6	1
50	Magnetic irreversibility of discontinuous Fe/CaF2 multilayers with thermal annealing. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1738-1739.	2.3	0
51	Use of AC susceptometry to study magnetoresistive properties of ceramic samples. , 0, , .		0
52	Use of AC Susceptometry to Study Magnetoresistive Properties of Ceramic Samples. Journal of Superconductivity and Novel Magnetism, 2002, 15, 463-468.	0.5	0
53	Effect of Thermal Annealing on the Stoichiometry and Magnetism of Mnâ€“Ga Thin Films. Journal of Physical Chemistry C, 2019, 123, 5583-5590.	3.1	0