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	Room temperature ferromagnetism in oxygen-deficient gallium oxide films with cubic spinel structure. Materials Chemistry and Physics, 2022, 287, 126320.	4.0	7
2	Effect of wavelength and fluence in laser-induced iron nitride nanostructures. Journal of Alloys and Compounds, 2021, 856, 157392.	5.5	5
3	Interplay between magnetic moment and magnetocrystalline anisotropy in tetragonally distorted galfenol films. Journal of Applied Physics, 2021, 129, 173902.	2.5	2
4	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
5	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
6	Mn5Ge3 ultra-thin films on GaAs (111)B substrates: Influence of initial growth conditions. Superlattices and Microstructures, 2020, 148, 106745.	3.1	3
7	Single-step formation of Cr 2 N nanoparticles by pulsed laser irradiation. Journal of Applied Physics, 2019, 125, 024301.	2.5	8
8	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
9	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
10	Oxygen diffusion and vacancy migration thermally-activated govern high-temperature magnetism in ceria. Scientific Reports, 2019, 9, 4708.	3.3	19
11	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
12	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
13	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
14	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
15	Spin disorder effect in anomalous Hall effect in MnGa. Journal of Magnetism and Magnetic Materials, 2017, 443, 165-170.	2.3	5
16	Exchange-bias reversal in Mn 2â^'x Ni 1+x Ga films with antisite disorder. Intermetallics, 2017, 91, 22-30.	3.9	4
17	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
18	Martensite transformations in Mn2NiGa thin films grown on GaAs substrates. Journal Physics D: Applied Physics, 2016, 49, 465002.	2.8	2

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19	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
20	Stabilization of perpendicular magnetic anisotropy in CeO₂ films deposited on Co/Pt multilayers. RSC Advances, 2016, 6, 56785-56789.	3.6	5
21	Goethite (Î±-FeOOH) magnetic transition by ESR, Magnetometry and MÃ¶ssbauer. Materials Chemistry and Physics, 2016, 173, 179-185.	4.0	20
22	Local order and the dependence of magnetization on Co content in V2O5 layered films. Journal of Applied Physics, 2015, 118, .	2.5	8
23	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
24	Tuning Fe 3 O 4 nanoparticle dispersion through pH in PVA/guar gum/electrospun membranes. Carbohydrate Polymers, 2015, 134, 775-783.	10.2	33
25	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
26	Oxygen-vacancy-induced room-temperature magnetization in lamellar V2O5 thin films. Journal of Applied Physics, 2014, 116, .	2.5	26
27	Magnetic domains in rolled-up nanomembranes of Co/Pt multilayers with perpendicular magnetic anisotropy. RSC Advances, 2014, 4, 8410.	3.6	4
28	Study of thermally activated reaction between Mn and GaAs(111) surface. Thin Solid Films, 2014, 570, 57-62.	1.8	4
29	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
30	Structure and Magnetism of MnGa Ultra-Thin Films on GaAs(111)B. IEEE Transactions on Magnetics, 2013, 49, 5595-5598.	2.1	12
31	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
32	Spin-dependent resonant quantum tunneling between magnetic nanoparticles on a macroscopic length scale. Physical Review B, 2011, 83, .	3.2	5
33	Loss of magnetization induced by doping in CeO2 films. Journal of Applied Physics, 2011, 110, .	2.5	24
34	Valence Evaluation of Cerium in Nanocrystalline CeO₂Films Electrodeposited on Si Substrates. Journal of the Electrochemical Society, 2011, 159, K27-K33.	2.9	31
35	Anisotropy of Magnetization and Nanocrystalline Texture in Electrodeposited CeO[sub 2] Films. Electrochemical and Solid-State Letters, 2011, 14, P9.	2.2	18
36	Magnetic response of cobalt nanowires with diameter below 5 nm. Physical Review B, 2010, 82, .	3.2	40

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37	Ferromagnetism induced by oxygen and cerium vacancies above the percolation limit in CeO₂. Journal of Physics Condensed Matter, 2010, 22, 216004.	1.8	59
38	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
39	Structural, magnetic and spectroscopic study of a diluted magnetic oxide: Co doped CeO2âˆ'Î´. Journal of Physics Condensed Matter, 2008, 20, 125222.	1.8	27
40	Magnetoresistance in granular magnetic tunnel junctions with Fe nanoparticles embedded in ZnSe semiconducting epilayer. Journal of Applied Physics, 2008, 103, 123714.	2.5	3
41	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
42	Planar assembly of monodisperse metallic cobalt nanoparticles embedded in TiO2âˆ'Î´matrix. Journal of Physics Condensed Matter, 2007, 19, 116205.	1.8	6
43	Magnetism and tunnelling magnetoresistance of Fe nanoparticles embedded in ZnSe epilayers. Journal Physics D: Applied Physics, 2007, 40, 2421-2424.	2.8	7
44	Room temperature ferromagnetism in Co-dopedCeO2films on Si(001). Physical Review B, 2007, 75, .	3.2	61
45	Growth and magnetic properties of MnAs epitaxied on GaAs(111)B. Journal of Applied Physics, 2006, 100, 093524.	2.5	8
46	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
47	Resonant tunnel magnetoresistance in epitaxial metal-semiconductor heterostructures. Physical Review B, 2005, 72, .	3.2	23
48	Structural and magnetic anisotropies ofFeâ•ZnSe(001)thin films. Physical Review B, 2004, 70, .	3.2	21
49	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
50	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
51	Use of AC Susceptometry to Study Magnetoresistive Properties of Ceramic Samples. Journal of Superconductivity and Novel Magnetism, 2002, 15, 463-468.	0.5	0
52	Magnetic irreversibility of discontinuous Fe/CaF2 multilayers with thermal annealing. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1738-1739.	2.3	0
53	Use of AC susceptometry to study magnetoresistive properties of ceramic samples. , 0, , .		0