

Petru Palade

List of Publications by Year in descending order

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papers

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docs citations

52
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#	ARTICLE	IF	CITATIONS
1	Hydrogen storage in Mg-Ni-Fe compounds prepared by melt spinning and ball milling. Journal of Alloys and Compounds, 2006, 415, 170-176.	2.8	73
2	Structure and hydrogen storage properties of MgH ₂ catalysed with La ₂ O ₃ . Journal of Alloys and Compounds, 2008, 450, 310-313.	2.8	56
3	Polymer-derived microcellular SiOC foams with magnetic functionality. Journal of Materials Science, 2008, 43, 4119-4126.	1.7	50
4	Reducibility of ruthenium in relation with zeolite structure. Applied Surface Science, 1999, 141, 164-176.	3.1	43
5	Prediction of half metallic properties in Ti ₂ Heusler alloy based on density functional theory. Journal of Magnetism and Magnetic Materials, 2013, 331, 109-112.	1.2	42
6	Band structure calculations of Ti ₂ FeSn: A new half-metallic compound. Intermetallics, 2013, 36, 86-89.	1.8	39
7	Nonequilibrium magnetic dynamics in mechanically alloyed materials. Physical Review B, 2001, 64, .	1.1	33
8	Half-metallic state and magnetic properties versus the lattice constant in Ti ₂ Heusler compound: An ab initio study. Solid State Communications, 2012, 152, 2147-2150.	0.9	32
9	A study of the LiNH ₂ -MgH ₂ system for solid state hydrogen storage. Journal of Alloys and Compounds, 2008, 459, 343-347.	2.8	29
10	Hydrogen-storage capacities and H diffusion in bcc TiVCr alloys. Journal of Alloys and Compounds, 2008, 466, 133-139.	2.8	29
11	Volume fraction dependent magnetic behaviour of ferrofluids for rotating seal applications. Journal Physics D: Applied Physics, 2013, 46, 395501.	1.3	28
12	Effect of the process control agent in the ball-milled powders and SPS-consolidation temperature on the grain refinement, density and Vickers hardness of Fe ₁₄ Cr ODS ferritic alloys. Powder Technology, 2019, 347, 103-113.	2.1	25
13	Study of Mg-based materials to be used in a functional solid state hydrogen reservoir for vehicular applications. International Journal of Hydrogen Energy, 2006, 31, 2097-2103.	3.8	21
14	Magnetic properties of iron-carbon nanocomposites obtained by laser pyrolysis in specific configurations. Journal of Alloys and Compounds, 2013, 564, 27-34.	2.8	19
15	Electronic properties of gold-aluminium intermetallic compounds. Journal of Alloys and Compounds, 2003, 353, 23-32.	2.8	18
16	High-Performance Functionalized Magnetic Nanoparticles with Tailored Sizes and Shapes for Localized Hyperthermia Applications. Journal of Physical Chemistry C, 2021, 125, 11132-11146.	1.5	16
17	Tuning structural and magnetic properties of Fe films on Si substrates by hydrogenation processing. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 181, 24-32.	1.7	15
18	Detailed characterization of functionalized magnetite and ascertained effects. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	14

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19	Engineering Magnetic Properties of Nanostructures via Size Effects and Interphase Interactions. Springer Series in Materials Science, 2014, , 169-237.	0.4	14
20	Stepped heating procedure for experimental SAR evaluation of ferrofluids. European Physical Journal E, 2015, 38, 57.	0.7	13
21	Effects of magnetic dipolar interactions on the specific time constant in superparamagnetic nanoparticle systems. Journal Physics D: Applied Physics, 2016, 49, 295001.	1.3	13
22	Magnetic properties of Fe ²⁺ /Co ferromagnetic layers and Fe ²⁺ /Mn/Fe ²⁺ /Co bilayers obtained by thermo-ionic vacuum arc. Journal of Alloys and Compounds, 2010, 499, 23-29.	2.8	10
23	Interface characterization and atomic intermixing processes in Be/W bilayers deposited on Si(001) substrates with Fe buffer layers. Journal of Alloys and Compounds, 2012, 512, 199-206.	2.8	10
24	Physical properties of hydrogen in TiVMnCr bcc alloys as deduced from hydrogen absorption/desorption and mechanical spectroscopy experiments. Journal of Alloys and Compounds, 2008, 456, 118-124.	2.8	9
25	¹⁹⁷ Au and ⁵⁷ Fe Mössbauer study of Au-substituted Al ¹³ Cu ¹³ Fe quasi-crystalline alloys. Journal of Alloys and Compounds, 2000, 313, 13-20.	2.8	8
26	Approach for an improved experimental evaluation of the specific absorption rate in magnetic fluid hyperthermia. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	8
27	¹⁹⁷ Au Mössbauer study of gold selenide, AuSe. Journal of Physics: Conference Series, 2010, 217, 012039.	0.3	7
28	Interfacial atomic diffusion in AF/Fe/Cu/Fe (AF = Fe ₅₀ Mn ₅₀ and Ir ₅₀ Mn ₅₀) multilayer systems. Thin Solid Films, 2010, 518, 5981-5985.	0.8	7
29	Mössbauer study of Mg ²⁺ /Ni(Fe) alloys processed as materials for solid state hydrogen storage. Hyperfine Interactions, 2006, 168, 1029-1035.	0.2	6
30	Reconstruction of superparamagnetic particle grain size distribution from Romanian loess using frequency dependent magnetic susceptibility and temperature dependent Mössbauer spectroscopy. Global and Planetary Change, 2015, 131, 89-103.	1.6	6
31	Magnetic interactions and spin structure in composite Fe/Nd ₂ Fe ₁₄ B systems. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 797-799.	1.0	5
32	Ion irradiation induced reduction of Fe ³⁺ to Fe ²⁺ and Fe ⁰ in triethoxysilane films. Journal of Physics Condensed Matter, 2005, 17, 7023-7028.	0.7	5
33	Characterization of magnetic nano-fluids via Mössbauer spectroscopy. Hyperfine Interactions, 2009, 191, 55-60.	0.2	5
34	Structural, Magnetic, and Mössbauer Investigation of Ordered Iron Nitride with Martensitic Structure Obtained from Amorphous Hematite Synthesized via the Microwave Route. Industrial & Engineering Chemistry Research, 2017, 56, 2958-2966.	1.8	5
35	Tuning magneto-transport properties of Fe ²⁺ /Au granular thin films by cluster organization. Journal Physics D: Applied Physics, 2017, 50, 275004.	1.3	5
36	Epoxy Coatings Containing Modified Graphene for Electromagnetic Shielding. Polymers, 2022, 14, 2508.	2.0	5

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37	The nature of the hydrogen bond in the LaNiSnH ₂ and NdNiSnH hydrides. Journal of Chemical Physics, 2005, 122, 124703.	1.2	4
38	On the Passivation of the Metallic Surfaces from the Nuclear Plant Water Circuits. Hyperfine Interactions, 1998, 112, 35-38.	0.2	3
39	Spin configurations and interfacial diffusion in exchange bias and spin valve systems with Ir ⁴⁺ /Mn antiferromagnetic pinning layers. Hyperfine Interactions, 2009, 191, 135-141.	0.2	3
40	Effects of annealing in Be/W and Be/C bilayers deposited on Si(0 0 1) substrates with Fe buffer layers. Journal of Nuclear Materials, 2015, 457, 220-226.	1.3	3
41	Jahn-Teller configurations in natural spinels. Physics and Chemistry of Minerals, 1999, 27, 95-102.	0.3	2
42	Mössbauer study of LaNiSn and NdNiSn compounds and their deuterides. Journal of Radioanalytical and Nuclear Chemistry, 2005, 266, 553-556.	0.7	2
43	An anelastic spectroscopy, differential scanning calorimetry and X-ray diffraction study of the crystallization process of Mg ²⁺ /Ni ²⁺ /Fe alloys. Journal of Alloys and Compounds, 2008, 463, 148-152.	2.8	2
44	Thermodynamic destabilization of Li ⁺ /Ni ²⁺ /H system by Si addition. Journal of Alloys and Compounds, 2010, 505, 343-347.	2.8	2
45	Be/W and W/Be bilayers deposited on Si substrates with hydrogenated Fe-Cr and Fe-Cr-Al interlayers for plasma facing components. Journal of Nuclear Materials, 2016, 481, 73-80.	1.3	2
46	Significant change of local atomic configurations at surface of reduced activation Eurofer steels induced by hydrogenation treatments. Applied Surface Science, 2017, 402, 114-119.	3.1	2
47	One-pot strategy for obtaining magnetic PMMA particles through ATRP using Fe(CO) ₅ as co-initiator. European Polymer Journal, 2021, 152, 110446.	2.6	2
48	Shaping distinct magnetic interactions in molecular compounds. Journal of Magnetism and Magnetic Materials, 2011, 323, 1044-1053.	1.0	1
49	Model-free kinetic analysis of Sr ₂ FeMoO ₆ re-crystallization process used for double-perovskite monocrystals grown by Bridgman method. AIP Conference Proceedings, 2015, , .	0.3	1
50	Nitriding-induced texture, ordering and coercivity enhancement in FePtAgB nanocomposite magnets. Journal of Magnetism and Magnetic Materials, 2016, 401, 965-968.	1.0	1
51	Iron containing 3d ⁴ /4f compounds: Effect of alternative processing on local interactions and storage properties. Journal of Alloys and Compounds, 2009, 480, 157-160.	2.8	0
52	Local configurations and atomic intermixing in as-quenched and annealed Fe _{1-x} Cr _x and Fe _{1-x} Mo _x ribbons. Philosophical Magazine, 2018, 98, 1053-1067.	0.7	0