

Federica Celegato

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Disordered to ordered phase transformation: Correlation between microstructure and magnetic properties in FePd thin films. Journal of Applied Physics, 2022, 131, .	1.1	3
2	Nanoporous FePd alloy as multifunctional ferromagnetic SERS-active substrate. Applied Surface Science, 2021, 543, 148759.	3.1	15
3	Structural, Wetting and Magnetic Properties of Sputtered Fe70Pd30 Thin Film with Nanostructured Surface Induced by Dealloying Process. Nanomaterials, 2021, 11, 282.	1.9	4
4	Nanostructured Molybdenum Oxides from Aluminium-Based Intermetallic Compound: Synthesis and Application in Hydrogen Evolution Reaction. Nanomaterials, 2021, 11, 1313.	1.9	6
5	Effect of the Substrate Crystallinity on Morphological and Magnetic Properties of Fe70Pd30 Nanoparticles Obtained by the Solid-State Dewetting. Sensors, 2021, 21, 7420.	2.1	4
6	Experimental and Modelling Analysis of the Hyperthermia Properties of Iron Oxide Nanocubes. Nanomaterials, 2021, 11, .	1.9	0
7	Experimental and Modelling Analysis of the Hyperthermia Properties of Iron Oxide Nanocubes. Nanomaterials, 2021, 11, 2179.	1.9	13
8	Au-Coated Ni80Fe20 Submicron Magnetic Nanodisks: Interactions With Tumor Cells. Frontiers in Nanotechnology, 2020, 2, .	2.4	2
9	A comparative study of the influence of the deposition technique (electrodeposition versus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Materials, 2020, 21, 424-434.	2.8	9
10	Towards a traceable enhancement factor in surface-enhanced Raman spectroscopy. Journal of Materials Chemistry C, 2020, 8, 16513-16519.	2.7	19
11	Tailored and Guided Dewetting of Block Copolymer/Homopolymer Blends. Macromolecules, 2020, 53, 7207-7217.	2.2	6
12	Measurement of thin film magnetostriction using field-dependent atomic force microscopy. Applied Surface Science, 2020, 525, 146514.	3.1	3
13	Structural and Magnetic Properties of FePd Thin Film Synthesized by Electrodeposition Method. Materials, 2020, 13, 1454.	1.3	8
14	Martensite-enabled magnetic flexibility: The effects of post-growth treatments in magnetic-shape-memory Heusler thin films. Acta Materialia, 2020, 187, 135-145.	3.8	18
15	Specific Loss Power of Co/Li/Zn-Mixed Ferrite Powders for Magnetic Hyperthermia. Sensors, 2020, 20, 2151.	2.1	16
16	Rotatable magnetic anisotropy in Fe78Si9B13 thin films displaying stripe domains. Applied Surface Science, 2019, 476, 402-411.	3.1	16
17	Influence of shape, size and magnetostatic interactions on the hyperthermia properties of permalloy nanostructures. Scientific Reports, 2019, 9, 6591.	1.6	24
18	Specific loss power measurements by calorimetric and thermal methods on $\hat{1}^3$ -Fe2O3 nanoparticles for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2019, 473, 403-409.	1.0	19

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19	Cation distribution effect on static and dynamic magnetic properties of $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ ferrite powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 456, 372-380.	1.0	46
20	Formation of free-standing magnetic particles by solid-state dewetting of $\text{Fe}_{80}\text{Pd}_{20}$ thin films. <i>Journal of Alloys and Compounds</i> , 2018, 742, 751-758.	2.8	8
21	Comparing selective corrosion of Au-based amorphous, partially amorphous, and devitrified alloys. <i>Journal of Alloys and Compounds</i> , 2018, 745, 212-216.	2.8	6
22	Single-Photon Emitters in Lead-Implanted Single-Crystal Diamond. <i>ACS Photonics</i> , 2018, 5, 4864-4871.	3.2	66
23	Magnetic Shape Memory Turns to Nano: Microstructure Controlled Actuation of Free-Standing Nanodisks. <i>Small</i> , 2018, 14, e1803027.	5.2	19
24	Effect of the A1 to L10 transformation on the structure and magnetic properties of polycrystalline $\text{Fe}_{56}\text{Pd}_{44}$ alloy thin films produced by thermal evaporation technique. <i>Thin Solid Films</i> , 2018, 668, 9-13.	0.8	6
25	Amorphous molybdenum sulphide @ nanoporous gold as catalyst for hydrogen evolution reaction in acidic environment. <i>Journal of Materials Science</i> , 2018, 53, 12388-12398.	1.7	17
26	Shape controlled gold nanostructures on de-alloyed nanoporous gold with excellent SERS performance. <i>Chemical Physics Letters</i> , 2018, 709, 46-51.	1.2	23
27	Hysteresis losses and specific absorption rate measurements in magnetic nanoparticles for hyperthermia applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1545-1558.	1.1	49
28	Magnetization switching in high-density magnetic nanodots by a fine-tune sputtering process on a large-area diblock copolymer mask. <i>Nanoscale</i> , 2017, 9, 16981-16992.	2.8	10
29	Mixed exchange-coupled soft $\hat{L}1\text{-}(\text{Fe}_{80}\text{Pd}_{20})$ and hard $\text{L}1\text{0 FePd}$ phases in $\text{Fe}_{64}\text{Pd}_{36}$ thin films studied by first order reversal curves. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 226, 47-56.	1.7	6
30	Growth of strained, but stable, graphene on Co. <i>Thin Solid Films</i> , 2017, 638, 324-331.	0.8	6
31	Tailoring magnetic properties of multicomponent layered structure via current annealing in FePd thin films. <i>Scientific Reports</i> , 2017, 7, 16691.	1.6	8
32	Bi-Component Nanostructured Arrays of Co Dots Embedded in $\text{Ni}_{80}\text{Fe}_{20}$ Antidot Matrix: Synthesis by Self-Assembling of Polystyrene Nanospheres and Magnetic Properties. <i>Nanomaterials</i> , 2017, 7, 232.	1.9	7
33	The effects of thickness on magnetic properties of FeCuNbSiB sputtered thin films. <i>Scientia Iranica</i> , 2017, .	0.3	0
34	Development and calibration of a MFM-based system for local hysteresis loops measurements. <i>Journal of Physics: Conference Series</i> , 2016, 755, 012002.	0.3	1
35	$\text{Mn}_x\text{Ga}_{1-x}$ nanodots with high coercivity and perpendicular magnetic anisotropy. <i>Applied Surface Science</i> , 2016, 387, 1169-1173.	3.1	2
36	Magnetic vortex chirality determination via local hysteresis loops measurements with magnetic force microscopy. <i>Scientific Reports</i> , 2016, 6, 29904.	1.6	10

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37	Surface modification and cellular uptake evaluation of Au-coated Ni ₈₀ Fe ₂₀ nanodiscs for biomedical applications. Interface Focus, 2016, 6, 20160052.	1.5	9
38	Influence of lattice defects on the ferromagnetic resonance behaviour of 2D magnonic crystals. Scientific Reports, 2016, 6, 22004.	1.6	29
39	Spin Waves Observation and Their Modeling Through Effective Parameters in Antidot Arrays. IEEE Transactions on Magnetics, 2016, 52, 1-5.	1.2	2
40	The mechanism of generating nanoporous Au by de-alloying amorphous alloys. Acta Materialia, 2016, 119, 177-183.	3.8	44
41	Magnetization reversal and microstructure in polycrystalline Fe ₅₀ Pd ₅₀ dot arrays by self-assembling of polystyrene nanospheres. Science and Technology of Advanced Materials, 2016, 17, 462-472.	2.8	19
42	Supersaturation state effect in diffusion induced Ge nanowires growth at high temperatures. Journal of Crystal Growth, 2016, 436, 51-55.	0.7	6
43	Specific absorption rate determination of magnetic nanoparticles through hyperthermia measurements in non-adiabatic conditions. Journal of Magnetism and Magnetic Materials, 2016, 415, 2-7.	1.0	33
44	Influence of current annealing on the magnetic properties of amorphous and crystalline soft thin films. , 2015, , .		0
45	Achieving Giant Magnetically Induced Reorientation of Martensitic Variants in Magnetic Shape-Memory Ni-Mn-Ga Films by Microstructure Engineering. Advanced Materials, 2015, 27, 4760-4766.	11.1	36
46	Comprehensive Theoretical and Experimental Analysis of Spin Waves in Magnetic Thin Film. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2
47	A comparison of de-alloying crystalline and amorphous multicomponent Au alloys. Intermetallics, 2015, 66, 82-87.	1.8	34
48	Ni ₈₀ Fe ₂₀ nanodisks by nanosphere lithography for biomedical applications. Journal of Applied Physics, 2015, 117, 17B304.	1.1	18
49	Metrology to support therapeutic and diagnostic techniques based on electromagnetics and nanomagnetism. Rendiconti Lincei, 2015, 26, 245-254.	1.0	0
50	Static and dynamic properties of magnetic nanostructured films for magnetosensing applications. , 2015, , .		0
51	Local hysteresis loops measurements on irradiated FeSiB patterned dots by magnetic force microscopy. Journal of Magnetism and Magnetic Materials, 2015, 373, 250-254.	1.0	2
52	Magnetoelastic Clock System for Nanomagnet Logic. IEEE Nanotechnology Magazine, 2014, 13, 963-973.	1.1	34
53	Chemical, electronic, and magnetic structure of LaFeCoSi alloy: Surface and bulk properties. Journal of Applied Physics, 2014, 115, 203901.	1.1	3
54	Synthesis of nanoporous gold by free corrosion of an amorphous precursor. Journal of Alloys and Compounds, 2014, 615, S142-S147.	2.8	37

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55	Spin precession by pulsed inductive magnetometry in thin amorphous plates. Journal of Applied Physics, 2014, 115, 17A338.	1.1	5
56	Synthesis and soft magnetic properties of $Zn_{0.8}xNi_{0.1}Mg_{0.1}Cu_{0.1}Fe_2O_4$ ($x=0.0\sim 0.8$) ferrites prepared by sol-gel auto-combustion method. Journal of Alloys and Compounds, 2014, 615, S313-S316.	2.8	38
57	Synthesis and magnetic properties of multiwalled carbon nanotubes decorated with magnetite nanoparticles. Physica B: Condensed Matter, 2014, 435, 88-91.	1.3	18
58	Assessment of corrosion resistance of Nd-Fe-B magnets by silanization for orthodontic applications. Physica B: Condensed Matter, 2014, 435, 92-95.	1.3	17
59	Microstructural evolution and magnetic properties in Fe ₅₀ Pd ₅₀ sputtered thin films submitted to post-deposition annealing. Journal of Alloys and Compounds, 2014, 615, S236-S241.	2.8	9
60	Diffusion induced effects on geometry of Ge nanowires. Nanoscale, 2014, 6, 7469-7473.	2.8	9
61	Magnetic properties dependence on the coupled effects of magnetic fields on the microstructure of as-deposited and post-annealed Co/Ni bilayer thin films. Journal of Magnetism and Magnetic Materials, 2014, 372, 159-166.	1.0	5
62	Local field loop measurements by magnetic force microscopy. Journal Physics D: Applied Physics, 2014, 47, 325003.	1.3	11
63	Anisotropic magneto-resistance in Ni ₈₀ Fe ₂₀ antidot arrays with different lattice configurations. Applied Surface Science, 2014, 316, 380-384.	3.1	6
64	Pure magnetic hard fct FePt nanoparticles: Chemical synthesis, structural and magnetic properties correlations. Materials Chemistry and Physics, 2014, 144, 186-193.	2.0	14
65	Electron-irradiation induced changes in structural and magnetic properties of Fe and Co based metallic glasses. Journal of Alloys and Compounds, 2014, 615, S324-S327.	2.8	9
66	Magnetic properties and amorphous-to-nanocrystalline transformation by thermal treatments in Fe _{84.3} Si ₄ P ₃ B ₈ Cu _{0.7} amorphous thin films. Journal of Alloys and Compounds, 2014, 615, S280-S284.	2.8	3
67	Electric Clock for NanoMagnet Logic Circuits. Lecture Notes in Computer Science, 2014, , 73-110.	1.0	8
68	Electric Clock for NanoMagnet Logic Circuits. Lecture Notes in Computer Science, 2014, , 73-110.	1.0	5
69	Magnetic properties of jet-printer inks containing dispersed magnetite nanoparticles. European Physical Journal B, 2013, 86, 1.	0.6	49
70	Arrays of ordered nanostructures in Fe-Pt thin films by self-assembling of polystyrene nanospheres. Journal of Applied Physics, 2013, 113, .	1.1	12
71	Magnetic and Magnetoresistive Properties of Thin Films Patterned by Self-Assembling Polystyrene Nanospheres. Springer Series in Materials Science, 2013, , 171-195.	0.4	1
72	Soft magnetic thin films: influence of annealing on magnetic properties. Journal of Physics: Conference Series, 2012, 365, 012003.	0.3	12

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73	Large-area patterned magnetic nanostructures by self-assembling of polystyrene nanospheres. Materials Research Society Symposia Proceedings, 2012, 1411, 19.	0.1	2
74	Magnetic properties of current-annealed amorphous thin films. Journal of Applied Physics, 2012, 112, 053910.	1.1	6
75	Magnetoelastic coupling in multilayered ferroelectric/ferromagnetic thin films: A quantitative evaluation. Applied Surface Science, 2012, 258, 8072-8077.	3.1	12
76	Arrays of nanostructured antidot in Ni ₈₀ Fe ₂₀ magnetic thin films by photolithography of polystyrene nanospheres. Applied Surface Science, 2012, 259, 44-48.	3.1	9
77	Magnetic and structural properties of ion beam sputtered Fe ₄₀ Zr ₄₀ Nb ₁₀ B ₁₀ Cu thin films. Thin Solid Films, 2012, 520, 3499-3504.	0.8	2
78	Thickness dependence of crystalline state in FeZrNbCuB thin films obtained by sputter deposition. Journal of Alloys and Compounds, 2011, 509, 4688-4695.	2.8	5
79	Influence of Sample Geometry on Inductive Damping Measurement Methods. IEEE Transactions on Magnetism, 2011, 47, 2502-2504.	1.2	6
80	Magnonics Crystal Composed by Magnetic Antivortices Confined in Antidots. IEEE Transactions on Magnetism, 2011, 47, 2498-2501.	1.2	4
81	High performance of low cost soft magnetic materials. Bulletin of Materials Science, 2011, 34, 1407-1413.	0.8	10
82	Morphology and magnetic properties of island-like Co and Ni films obtained by de-wetting. Journal of Nanoparticle Research, 2011, 13, 245-255.	0.8	13
83	Evidence for magnetic interactions among magnetite nanoparticles dispersed in photoreticulated PEGDA-600 matrix. Journal of Nanoparticle Research, 2011, 13, 5615-5626.	0.8	37
84	Exchange bias in nanopatterned Co antidots prepared by self-assembling polystyrene nanospheres. Journal of Nanoparticle Research, 2011, 13, 5641-5651.	0.8	5
85	Synthesis of Ni ₈₀ Fe ₂₀ and Co nanodot arrays by self-assembling of polystyrene nanospheres: magnetic and microstructural properties. Journal of Nanoparticle Research, 2011, 13, 4211-4218.	0.8	15
86	Fabrication of ordered silicon nanopillars and nanowires by self-assembly and metal-assisted etching. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1412-1416.	0.8	14
87	Macro and quasi-mesoporous silicon by self-assembly and metal assisted etching. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1403-1406.	0.8	8
88	Effect of crystallisation on the magnetic properties of FeCuNbBSi amorphous thin films produced by sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3070-3073.	0.8	9
89	Preparation and characterization of ZnSn-substituted barium ferrite thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 1465-1469.	1.0	1
90	Morphology and magnetic properties of sputtered Co ₈₀ Cr ₂₀ thin film antidot patterns obtained by Electron Beam Lithography. Journal of Physics: Conference Series, 2010, 200, 072034.	0.3	0

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91	Magnetization Properties of FeTb Thin Films. IEEE Transactions on Magnetics, 2010, 46, 487-490.	1.2	6
92	Enhancement and Correlation of MFM Images: Effect of the Tip on the Magnetic Configuration of Patterned Co Thin Films. IEEE Transactions on Magnetics, 2010, 46, 195-198.	1.2	8
93	Magnetoanisotropy in a hexagonal lattice of Co antidots obtained by thermal evaporation. Journal of Magnetism and Magnetic Materials, 2010, 322, 1409-1412.	1.0	12
94	Competing magnetoanisotropy contributions in sputtered FePt thin films. Journal of Magnetism and Magnetic Materials, 2010, 322, 1898-1903.	1.0	5
95	charge-density deformation and magnetostrictive bond strain observed in amorphous $TbFe_4$ x-ray absorption spectroscopy. Physical Review B, 2010, 81, .	1.1	14
96	Magnetic and magnetotransport properties of arrays of nanostructured antidots obtained by self-assembling polystyrene nanosphere lithography. Journal of Applied Physics, 2010, 107, .	1.1	21
97	High-frequency magnetoimpedance properties in Finemet-type ribbons with a Cu-Co electrodeposited layer. Journal of Alloys and Compounds, 2010, 495, 412-416.	2.8	4
98	Magnetotransport properties of a percolating network of magnetite crystals embedded in a glass-ceramic matrix. Journal of Applied Physics, 2009, 105, 083911.	1.1	7
99	Analysis of Magnetic Domain Patterns and Vector Hysteresis Loops in Dot/Antidot Structures. IEEE Transactions on Magnetics, 2009, 45, 3511-3514.	1.2	1
100	Giant magnetoanisotropy in melt spun. Journal of Magnetism and Magnetic Materials, 2009, 321, 131-136.	1.0	15
101	Magnetic properties of FeSiB thin films displaying stripe domains. Journal of Magnetism and Magnetic Materials, 2009, 321, 806-809.	1.0	67
102	Temperature dependence of magnetic properties in Fe/Fe ₃ O ₄ nanoparticles dispersed in water. Journal of Magnetism and Magnetic Materials, 2009, 321, 2276-2278.	1.0	2
103	A study of magnetic properties in CoFeSiB amorphous thin films submitted to furnace annealing. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1745-1748.	0.8	10
104	Effect of annealing on magnetic and magnetotransport properties of Fe ₈₄ Zr _{3.5} Nb _{3.5} Cu ₁ B ₈ ribbons. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1749-1752.	0.8	1
105	Magnetic properties of field-annealed FeCo thin films. Journal of Magnetism and Magnetic Materials, 2008, 320, e739-e742.	1.0	10
106	Enhanced imaging of magnetic structures in micropatterned arrays of Co dots and antidots. Journal of Magnetism and Magnetic Materials, 2008, 320, e669-e673.	1.0	16
107	Stripe domains and spin reorientation transition in Fe ₇₈ B ₁₃ Si ₉ thin films produced by rf sputtering. Journal of Applied Physics, 2008, 104, .	1.1	55
108	Effect of thermal treatment on high-frequency magneto-impedance in ferromagnetic/Cu/ferromagnetic trilayers. Journal of Non-Crystalline Solids, 2008, 354, 5189-5191.	1.5	4

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109	Spin Reorientation Transition in Amorphous FeBSi Thin Films Submitted to Thermal Treatments. IEEE Transactions on Magnetics, 2008, 44, 3921-3924.	1.2	6
110	Low-temperature magnetotransport effects and magnetic inhomogeneity in FePt-based ferromagnetic thin films. Journal Physics D: Applied Physics, 2008, 41, 134016.	1.3	4
111	Anomalous low-temperature magnetoresistance dips in sputtered ferromagnetic thin films and multilayers. Journal of Applied Physics, 2008, 103, 073905.	1.1	3
112	Magnetization processes in sputtered FeSiB thin films. Physical Review B, 2008, 77, .	1.1	17
113	Thermally evaporated Cu/Co top spin valve with random exchange bias. Journal of Applied Physics, 2007, 101, 123915.	1.1	20
114	High-frequency magnetoimpedance on annealed amorphous magnetic wires with different magnetostriction constants. Journal of Non-Crystalline Solids, 2007, 353, 919-921.	1.5	5
115	Influence of annealing on the high frequency magnetotransport properties of melt-spun Fe ₃₁ Co ₃₁ Nb ₈ B ₃₀ alloys. Journal of Non-Crystalline Solids, 2007, 353, 3099-3102.	1.5	0
116	Study of magnetic properties and relaxation in amorphous Fe _{73.9} Nb _{3.1} Cu _{0.9} Si _{13.2} B _{8.9} thin films produced by ion beam sputtering. Journal of Applied Physics, 2007, 102, 043916.	1.1	3
117	Influence of magnetostriction on high-frequency magnetotransport properties of current-annealed amorphous magnetic wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 468-471.	2.6	0
118	Low-temperature magnetic softening by competing anisotropy compensation in a granular FePt/Ag multilayer. Journal of Magnetism and Magnetic Materials, 2007, 310, 2231-2233.	1.0	4
119	Different aggregation states in Cu/Co multilayers prepared by RF sputtering on rotating substrates. Journal of Magnetism and Magnetic Materials, 2007, 316, e5-e8.	1.0	2
120	Effect of Ag addition on the magnetic and magnetoresistance properties of films. Journal of Magnetism and Magnetic Materials, 2007, 316, e35-e39.	1.0	8
121	Structure, ferromagnetic resonance, and permeability of nanogranular Fe/Co/Ni films. Journal of Applied Physics, 2006, 99, 08M303.	1.1	9
122	Temperature dependence of spontaneous magnetisation in granular Au ₈₀ Fe ₂₀ films. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 580-583.	1.0	8
123	Magnetomechanical properties of nanogranular Co/Fe/Al/O films. Journal of Applied Physics, 2005, 97, 10N306.	1.1	7
124	Magnetic Nanoparticle Aggregation States in Ag _{100-x} Fe _x Cosputtered Granular Films Investigated by Magnetic and Magnetotransport Measurements. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	3
125	Proximity magnetoresistance in Ag ₇₀ Fe ₃₀ and Ag ₇₄ Fe ₂₆ cosputtered granular films. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3406-3409.	0.8	3
126	Nanomaterials Characterisation through Magnetic Field Dependent AFM. , 0, , .		0