Federica Celegato

List of Publications by Year
in descending order

126	1,533	394286	434063
papers	citations	19 h-index	31 g-index

127	127	127	2031
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic properties of FeSiB thin films displaying stripe domains. Journal of Magnetism and Magnetic Materials, 2009, 321, 806-809.	1.0	67
2	Single-Photon Emitters in Lead-Implanted Single-Crystal Diamond. ACS Photonics, 2018, 5, 4864-4871.	3.2	66
3	Stripe domains and spin reorientation transition in Fe78B13Si9 thin films produced by rf sputtering. Journal of Applied Physics, 2008, 104, .	1.1	55
4	Magnetic properties of jet-printer inks containing dispersed magnetite nanoparticles. European Physical Journal B, 2013, 86, 1.	0.6	49
5	Hysteresis losses and specific absorption rate measurements in magnetic nanoparticles for hyperthermia applications. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1545-1558.	1.1	49
6	Cation distribution effect on static and dynamic magnetic properties of Co1-xZnxFe2O4 ferrite powders. Journal of Magnetism and Magnetic Materials, 2018, 456, 372-380.	1.0	46
7	The mechanism of generating nanoporous Au by de-alloying amorphous alloys. Acta Materialia, 2016, 119, 177-183.	3.8	44
8	Synthesis and soft magnetic properties of Zn0.8â^'xNixMg0.1Cu0.1Fe2O4 (x=0.0â^'0.8) ferrites prepared by solâ€“gel auto-combustion method. Journal of Alloys and Compounds, 2014, 615, S313-S316.	2.8	38
9	Evidence for magnetic interactions among magnetite nanoparticles dispersed in photoreticulated PEGDA-600 matrix. Journal of Nanoparticle Research, 2011, 13, 5615-5626.	0.8	37
10	Synthesis of nanoporous gold by free corrosion of an amorphous precursor. Journal of Alloys and Compounds, 2014, 615, S142-S147.	2.8	37
11	Achieving Giant Magnetically Induced Reorientation of Martensitic Variants in Magnetic Shapeâ€Memory Niâ€“Mnâ€“Ga Films by Microstructure Engineering. Advanced Materials, 2015, 27, 4760-4766.	11.1	36
12	Magnetoelastic Clock System for Nanomagnet Logic. IEEE Nanotechnology Magazine, 2014, 13, 963-973.	1.1	34
13	A comparison of de-alloying crystalline and amorphous multicomponent Au alloys. Intermetallics, 2015, 66, 82-87.	1.8	34
14	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
15	Influence of lattice defects on the ferromagnetic resonance behaviour of 2D magnonic crystals. Scientific Reports, 2016, 6, 22004.	1.6	29
16	Influence of shape, size and magnetostatic interactions on the hyperthermia properties of permalloy nanostructures. Scientific Reports, 2019, 9, 6591.	1.6	24
17	Shape controlled gold nanostructures on de-alloyed nanoporous gold with excellent SERS performance. Chemical Physics Letters, 2018, 709, 46-51.	1.2	23
18	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

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19	Thermally evaporated Cuâ€“Co top spin valve with random exchange bias. Journal of Applied Physics, 2007, 101, 123915.	1.1	20
20	Magnetization reversal and microstructure in polycrystalline Fe50Pd50 dot arrays by self-assembling of polystyrene nanospheres. Science and Technology of Advanced Materials, 2016, 17, 462-472.	2.8	19
21	Magnetic Shape Memory Turns to Nano: Microstructure Controlled Actuation of Freeâ€Standing Nanodisks. Small, 2018, 14, e1803027.	5.2	19
22	Specific loss power measurements by calorimetric and thermal methods on Î³-Fe2O3 nanoparticles for magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2019, 473, 403-409.	1.0	19
23	Towards a traceable enhancement factor in surface-enhanced Raman spectroscopy. Journal of Materials Chemistry C, 2020, 8, 16513-16519.	2.7	19
24	Synthesis and magnetic properties of multiwalled carbon nanotubes decorated with magnetite nanoparticles. Physica B: Condensed Matter, 2014, 435, 88-91.	1.3	18
25	Ni80Fe20 nanodisks by nanosphere lithography for biomedical applications. Journal of Applied Physics, 2015, 117, 17B304.	1.1	18
26	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
27	Magnetization processes in sputtered FeSiB thin films. Physical Review B, 2008, 77, .	1.1	17
28	Assessment of corrosion resistance of Ndâ€“Feâ€“B magnets by silanization for orthodontic applications. Physica B: Condensed Matter, 2014, 435, 92-95.	1.3	17
29	Amorphous molybdenum sulphide @ nanoporous gold as catalyst for hydrogen evolution reaction in acidic environment. Journal of Materials Science, 2018, 53, 12388-12398.	1.7	17
30	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
31	Rotatable magnetic anisotropy in Fe78Si9B13 thin films displaying stripe domains. Applied Surface Science, 2019, 476, 402-411.	3.1	16
32	Specific Loss Power of Co/Li/Zn-Mixed Ferrite Powders for Magnetic Hyperthermia. Sensors, 2020, 20, 2151.	2.1	16
33	Giant magnetoresistance in melt spun. Journal of Magnetism and Magnetic Materials, 2009, 321, 131-136.	1.0	15
34	Synthesis of Ni80Fe20 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
35	Nanoporous FePd alloy as multifunctional ferromagnetic SERS-active substrate. Applied Surface Science, 2021, 543, 148759.	3.1	15
36	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:math>charge-density deformation and magnetostrictive bond strain observed in amorphous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TbFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms x-ray absorption spectroscopy. Physical Review B, 2010, 81, .	1.1	14

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37	Fabrication of ordered silicon nanopillars and nanowires by selfâ€assembly and metalâ€assisted etching. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1412-1416.	0.8	14
38	Pure magnetic hard fct FePt nanoparticles: Chemical synthesis, structural and magnetic properties correlations. Materials Chemistry and Physics, 2014, 144, 186-193.	2.0	14
39	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
40	Experimental and Modelling Analysis of the Hyperthermia Properties of Iron Oxide Nanocubes. Nanomaterials, 2021, 11, 2179.	1.9	13
41	Magnetoresistance anisotropy in a hexagonal lattice of Co antidots obtained by thermal evaporation. Journal of Magnetism and Magnetic Materials, 2010, 322, 1409-1412.	1.0	12
42	Soft magnetic thin films: influence of annealing on magnetic properties. Journal of Physics: Conference Series, 2012, 365, 012003.	0.3	12
43	Magnetoelastic coupling in multilayered ferroelectric/ferromagnetic thin films: A quantitative evaluation. Applied Surface Science, 2012, 258, 8072-8077.	3.1	12
44	Arrays of ordered nanostructures in Fe-Pt thin films by self-assembling of polystyrene nanospheres. Journal of Applied Physics, 2013, 113, .	1.1	12
45	Local field loop measurements by magnetic force microscopy. Journal Physics D: Applied Physics, 2014, 47, 325003.	1.3	11
46	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
47	Magnetic properties of field-annealed FeCo thin films. Journal of Magnetism and Magnetic Materials, 2008, 320, e739-e742.	1.0	10
48	High performance of low cost soft magnetic materials. Bulletin of Materials Science, 2011, 34, 1407-1413.	0.8	10
49	Magnetic vortex chirality determination via local hysteresis loops measurements with magnetic force microscopy. Scientific Reports, 2016, 6, 29904.	1.6	10
50	Magnetization switching in high-density magnetic nanodots by a fine-tune sputtering process on a large-area diblock copolymer mask. Nanoscale, 2017, 9, 16981-16992.	2.8	10
51	Structure, ferromagnetic resonance, and permeability of nanogranular Feâ€“Coâ€“Bâ€“Ni films. Journal of Applied Physics, 2006, 99, 08M303.	1.1	9
52	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
53	Arrays of nanostructured antidot in Ni80Fe20 magnetic thin films by photolithography of polystyrene nanospheres. Applied Surface Science, 2012, 259, 44-48.	3.1	9
54	Microstructural evolution and magnetic properties in Fe50Pd50 sputtered thin films submitted to post-deposition annealing. Journal of Alloys and Compounds, 2014, 615, S236-S241.	2.8	9

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55	Diffusion induced effects on geometry of Ge nanowires. Nanoscale, 2014, 6, 7469-7473.	2.8	9
56	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
57	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
58	A comparative study of the influence of the deposition technique (electrodeposition versus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 T Materials, 2020, 21, 424-434.	2.8	9
59	Temperature dependence of spontaneous magnetisation in granular Au80Fe20 films. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 580-583.	1.0	8
60	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
61	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
62	Macro and quasiâ€mesoporous silicon by selfâ€assembling and metal assisted etching. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1403-1406.	0.8	8
63	Tailoring magnetic properties of multicomponent layered structure via current annealing in FePd thin films. Scientific Reports, 2017, 7, 16691.	1.6	8
64	Formation of free-standing magnetic particles by solid-state dewetting of Fe80Pd20 thin films. Journal of Alloys and Compounds, 2018, 742, 751-758.	2.8	8
65	Structural and Magnetic Properties of FePd Thin Film Synthesized by Electrodeposition Method. Materials, 2020, 13, 1454.	1.3	8
66	Electric Clock for NanoMagnet Logic Circuits. Lecture Notes in Computer Science, 2014, , 73-110.	1.0	8
67	Magnetomechanical properties of nanogranular Coâ€“Feâ€“Alâ€“O films. Journal of Applied Physics, 2005, 97, 10N306.	1.1	7
68	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
69	Bi-Component Nanostructured Arrays of Co Dots Embedded in Ni80Fe20 Antidot Matrix: Synthesis by Self-Assembling of Polystyrene Nanospheres and Magnetic Properties. Nanomaterials, 2017, 7, 232.	1.9	7
70	Spin Reorientation Transition in Amorphous FeBSi Thin Films Submitted to Thermal Treatments. IEEE Transactions on Magnetics, 2008, 44, 3921-3924.	1.2	6
71	Magnetization Properties of FeTb Thin Films. IEEE Transactions on Magnetics, 2010, 46, 487-490.	1.2	6
72	Influence of Sample Geometry on Inductive Damping Measurement Methods. IEEE Transactions on Magnetics, 2011, 47, 2502-2504.	1.2	6

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73	Magnetic properties of current-annealed amorphous thin films. Journal of Applied Physics, 2012, 112, 053910.	1.1	6
74	Anisotropic magneto-resistance in Ni 80 Fe 20 antidot arrays with different lattice configurations. Applied Surface Science, 2014, 316, 380-384.	3.1	6
75	Supersaturation state effect in diffusion induced Ge nanowires growth at high temperatures. Journal of Crystal Growth, 2016, 436, 51-55.	0.7	6
76	Mixed exchange-coupled soft Î±-(Fe 80 Pd 20) and hard L1 0 FePd phases in Fe 64 Pd 36 thin films studied by first order reversal curves. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 226, 47-56.	1.7	6
77	Growth of strained, but stable, graphene on Co. Thin Solid Films, 2017, 638, 324-331.	0.8	6
78	Comparing selective corrosion of Au-based amorphous, partially amorphous, and devitrified alloys. Journal of Alloys and Compounds, 2018, 745, 212-216.	2.8	6
79	Effect of the A1 to L10 transformation on the structure and magnetic properties of polycrystalline Fe56Pd44 alloy thin films produced by thermal evaporation technique. Thin Solid Films, 2018, 668, 9-13.	0.8	6
80	Tailored and Guided Dewetting of Block Copolymer/Homopolymer Blends. Macromolecules, 2020, 53, 7207-7217.	2.2	6
81	Nanostructured Molybdenum Oxides from Aluminium-Based Intermetallic Compound: Synthesis and Application in Hydrogen Evolution Reaction. Nanomaterials, 2021, 11, 1313.	1.9	6
82	High-frequency magnetoimpedance on annealed amorphous magnetic wires with different magnetostriction constants. Journal of Non-Crystalline Solids, 2007, 353, 919-921.	1.5	5
83	Competing magnetoresistance contributions in sputtered FePt thin films. Journal of Magnetism and Magnetic Materials, 2010, 322, 1898-1903.	1.0	5
84	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
85	Exchange bias in nanopatterned Co antidots prepared by self-assembling polystyrene nanospheres. Journal of Nanoparticle Research, 2011, 13, 5641-5651.	0.8	5
86	Spin precession by pulsed inductive magnetometry in thin amorphous plates. Journal of Applied Physics, 2014, 115, 17A338.	1.1	5
87	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
88	Electric Clock for NanoMagnet Logic Circuits. Lecture Notes in Computer Science, 2014, , 73-110.	1.0	5
89	Low-temperature magnetic softening by competing anisotropy compensation in a granular FePtâ€“Ag multilayer. Journal of Magnetism and Magnetic Materials, 2007, 310, 2231-2233.	1.0	4
90	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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91	Low-temperature magnetotransport effects and magnetic inhomogeneity in FePt-based ferromagnetic thin films. Journal Physics D: Applied Physics, 2008, 41, 134016.	1.3	4
92	High-frequency magnetoimpedance properties in Finemet-type ribbons with a Cuâ€“Co electrodeposited layer. Journal of Alloys and Compounds, 2010, 495, 412-416.	2.8	4
93	Magnonics Crystal Composed by Magnetic Antivortices Confined in Antidots. IEEE Transactions on Magnetics, 2011, 47, 2498-2501.	1.2	4
94	Structural, Wetting and Magnetic Properties of Sputtered Fe70Pd30 Thin Film with Nanostructured Surface Induced by Dealloying Process. Nanomaterials, 2021, 11, 282.	1.9	4
95	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
96	Proximity magnetoresistance in Ag70Fe30 and Ag74Fe26 cosputtered granular films. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3406-3409.	0.8	3
97	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
98	Study of magnetic properties and relaxation in amorphous Fe73.9Nb3.1Cu0.9Si13.2B8.9 thin films produced by ion beam sputtering. Journal of Applied Physics, 2007, 102, 043916.	1.1	3
99	Anomalous low-temperature magnetoresistance dips in sputtered ferromagnetic thin films and multilayers. Journal of Applied Physics, 2008, 103, 073905.	1.1	3
100	Chemical, electronic, and magnetic structure of LaFeCoSi alloy: Surface and bulk properties. Journal of Applied Physics, 2014, 115, 203901.	1.1	3
101	Magnetic properties and amorphous-to-nanocrystalline transformation by thermal treatments in Fe84.3Si4P3B8Cu0.7 amorphous thin films. Journal of Alloys and Compounds, 2014, 615, S280-S284.	2.8	3
102	Measurement of thin film magnetostriction using field-dependent atomic force microscopy. Applied Surface Science, 2020, 525, 146514.	3.1	3
103	Disordered to ordered phase transformation: Correlation between microstructure and magnetic properties in Feâ€“Pd thin films. Journal of Applied Physics, 2022, 131, .	1.1	3
104	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
105	Temperature dependence of magnetic properties in Fe/Feâ€“O nanoparticles dispersed in water. Journal of Magnetism and Magnetic Materials, 2009, 321, 2276-2278.	1.0	2
106	Large-area patterned magnetic nanostructures by self-assembling of polystyrene nanospheres. Materials Research Society Symposia Proceedings, 2012, 1411, 19.	0.1	2
107	Magnetic and structural properties of ion beam sputtered Feâ€“Zrâ€“Nbâ€“Bâ€“Cu thin films. Thin Solid Films, 2012, 520, 3499-3504.	0.8	2
108	Comprehensive Theoretical and Experimental Analysis of Spin Waves in Magnetic Thin Film. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2

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109	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
110	MnxGa1â˜'x nanodots with high coercivity and perpendicular magnetic anisotropy. Applied Surface Science, 2016, 387, 1169-1173.	3.1	2
111	Spin Waves Observation and Their Modeling Through Effective Parameters in Antidot Arrays. IEEE Transactions on Magnetics, 2016, 52, 1-5.	1.2	2
112	Au-Coated Ni80Fe20 Submicron Magnetic Nanodisks: Interactions With Tumor Cells. Frontiers in Nanotechnology, 2020, 2, .	2.4	2
113	Effect of annealing on magnetic and magnetotransport properties of Fe84Zr3.5Nb3.5Cu1B8ribbons. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1749-1752.	0.8	1
114	Analysis of Magnetic Domain Patterns and Vector Hysteresis Loops in Dot/Antidot Structures. IEEE Transactions on Magnetics, 2009, 45, 3511-3514.	1.2	1
115	Preparation and characterization of ZnSn-substituted barium ferrite thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 1465-1469.	1.0	1
116	Magnetic and Magnetoresistive Properties of Thin Films Patterned by Self-Assembling Polystyrene Nanospheres. Springer Series in Materials Science, 2013, , 171-195.	0.4	1
117	Development and calibration of a MFM-based system for local hysteresis loops measurements. Journal of Physics: Conference Series, 2016, 755, 012002.	0.3	1
118	Influence of annealing on the high frequency magnetotransport properties of melt-spun Fe31Co31Nb8B30 alloys. Journal of Non-Crystalline Solids, 2007, 353, 3099-3102.	1.5	0
119	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
120	Morphology and magnetic properties of sputtered Co80Cr20thin film antidot patterns obtained by Electron Beam Lithography. Journal of Physics: Conference Series, 2010, 200, 072034.	0.3	0
121	Influence of current annealing on the magnetic properties of amorphous and crystalline soft thin films. , 2015, , .		0
122	Metrology to support therapeutic and diagnostic techniques based on electromagnetics and nanomagnetics. Rendiconti Lincei, 2015, 26, 245-254.	1.0	0
123	Static and dynamic properties of magnetic nanostructured films for magnetosensing applications. , 2015, , .		0
124	Nanomaterials Characterisation through Magnetic Field Dependent AFM. , 0, , .		0
125	The effects of thickness on magnetic properties of FeCuNbSiB sputtered thin films. Scientia Iranica, 2017, .	0.3	0
126	Experimental and Modelling Analysis of the Hyperthermia Properties of Iron Oxide Nanocubes. Nanomaterials, 2021, 11, .	1.9	0