Eduardo Fernandez Martin

List of Publications by Year
in descending order

38	808	430874	501196
papers	citations	18 h-index	28 g-index

38	38	38	788
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Giant magnetoimpedance biosensor for ferrogel detection: Model system to evaluate properties of natural tissue. Applied Physics Letters, 2015, 106, .	3.3	71
2	Thin-film magneto-impedance structures with very large sensitivity. Journal of Magnetism and Magnetic Materials, 2016, 400, 321-326.	2.3	56
3	GMI detection of magnetic-particle concentration in continuous flow. Sensors and Actuators A: Physical, 2011, 172, 103-108.	4.1	53
4	Sensor Applications of Soft Magnetic Materials Based on Magneto-Impedance, Magneto-Elastic Resonance and Magneto-Electricity. Sensors, 2014, 14, 7602-7624.	3.8	49
5	FeNi-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. Applied Physics Letters, 2012, 100, .	3.3	47
6	Tailoring the magnetic anisotropy of thin film permalloy microstrips by combined shape and induced anisotropies. European Physical Journal B, 2013, 86, 1.	1.5	41
7	Flexible thin film magnetoimpedance sensors. Journal of Magnetism and Magnetic Materials, 2016, 415, 91-96.	2.3	41
8	Cu-coated cellulose nanopaper for green and low-cost electronics. Cellulose, 2016, 23, 1997-2010.	4.9	41
9	Nanostructured giant magneto-impedance multilayers deposited onto flexible substrates for low pressure sensing. Nanoscale Research Letters, 2012, 7, 230.	5.7	34
10	FeNi-based magnetic layered nanostructures: Magnetic properties and giant magnetoimpedance. Journal of Applied Physics, 2010, 107, .	2.5	32
11	Magnetic Properties and Giant Magnetoimpedance of FeNi-Based Nanostructured Multilayers With Variable Thickness of the Central Cu Lead. IEEE Transactions on Magnetics, 2011, 47, 3328-3331.	2.1	31
12	Nanostructured Magnetoimpedance Multilayers. IEEE Transactions on Magnetics, 2012, 48, 1375-1380.	2.1	29
13	High Performance Magnetoimpedance in FeNi/Ti Nanostructured Multilayers with Opened Magnetic Flux. Journal of Nanoscience and Nanotechnology, 2012, 12, 7496-7500.	0.9	24
14	GMI in Nanostructured FeNi/Ti Multilayers With Different Thicknesses of the Magnetic Layers. IEEE Transactions on Magnetics, 2013, 49, 18-21.	2.1	24
15	Magnetoimpedance of thin film meander with composite coating layer containing Ni nanoparticles. Journal of Applied Physics, 2014, 115, .	2.5	21
16	FeNi-based flat magnetoimpedance nanostructures with open magnetic flux: New topological approaches. Journal of Magnetism and Magnetic Materials, 2015, 383, 220-225.	2.3	21
17	Differences in the Magneto-Impedance of FeNi/Cu/FeNi Multilayers With Open and Closed Magnetic Path. IEEE Transactions on Magnetics, 2010, 46, 658-661.	2.1	20
18	Equivalent Magnetic Noise of Micro-Patterned Multilayer Thin Films Based GMI Microsensor. IEEE Sensors Journal, 2015, 15, 6707-6714.	4.7	19

#	Article	IF	Citations
19	Magnetoimpedance biosensor prototype for ferrogel detection. Journal of Magnetism and Magnetic Materials, 2017, 441, 650-655.	2.3	17
20	Printed Capacitive Sensors Based on Ionic Liquid/Metalâ€Organic Framework Composites for Volatile Organic Compounds Detection. Advanced Functional Materials, 2021, 31, 2010703.	14.9	17
21	Thin-Film Magnetoimpedance Structures Onto Flexible Substrates as Deformation Sensors. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	16
22	Morphology, directed self-assembly and pattern transfer from a high molecular weight polystyrene-block-poly(dimethylsiloxane) block copolymer film. Nanotechnology, 2017, 28, 145301.	2.6	15
23	High-Frequency Magnetoimpedance Response of Thin-Film Microstructures Using Coplanar Waveguides. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	14
24	Design of Ionic-Liquid-Based Hybrid Polymer Materials with a Magnetoactive and Electroactive Multifunctional Response. ACS Applied Materials & Interfaces, 2020, 12, 42089-42098.	8.0	14
25	Comparative study of magnetic, microwave properties and giant magnetoimpedance of FeNi-based multilayers with different structure. Journal of Alloys and Compounds, 2014, 615, S296-S299.	5.5	10
26	Comparison of Micro-Fabrication Routes for Magneto-Impedance Elements: Lift-Off and Wet-Etching. IEEE Transactions on Magnetics, 2012, 48, 1601-1604.	2.1	9
27	FeNi-Based Film Nanostructures for High Frequency Applications: Design and Characterization. Solid State Phenomena, 2010, 168-169, 257-260.	0.3	6
28	Overview on thermoactive materials, simulations and applications. Journal of Materials Science, 2020, 55, 925-946.	3.7	6
29	Domain structure, magnetic properties, and giant magnetoimpedance of FeNi/Tiâ€based multilayers. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2269-2272.	1.8	5
30	Thin-Film Magneto-Impedance Sensors. , 2017, , .		5
31	Thermal stability of L10-FePt nanodots patterned by self-assembled block copolymer lithography. Nanotechnology, 2018, 29, 465301.	2.6	5
32	Magnetoimpedance of FeNi Thin Film Meanders. Solid State Phenomena, 0, 190, 609-612.	0.3	4
33	Determination of the distribution of transverse magnetic anisotropy in thin films from the second harmonic of Kerr signal. Applied Physics Letters, 2013, 103, 142411.	3.3	4
34	Magnetic reversal and thermal stability of CoFeB perpendicular magnetic tunnel junction arrays patterned by block copolymer lithography. Nanotechnology, 2018, 29, 275302.	2.6	3
35	Evaluation of a Thin Film Giant Magneto-Impedance Electronic Compass. Sensor Letters, 2013, 11, 36-39.	0.4	2
36	GMI magnetic-particle concentration detection in continuous flow. Procedia Engineering, 2010, 5, 1324-1327.	1.2	1

#	Article	IF	Citations
37	Reluctance Sensor for Penetration Depth Control in Friction Stir Welding. Sensor Letters, 2013, 11, 62-65.	0.4	1
38	Magnetoimpedance in Samples With Patterned Surfaces for the Detection of Magnetic Particles and Ferrofluids. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.1	0