

Eduardo Fernandez Martin

List of Publications by Year in descending order

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papers

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430442

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38
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant magnetoimpedance biosensor for ferrogel detection: Model system to evaluate properties of natural tissue. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	71
2	Thin-film magneto-impedance structures with very large sensitivity. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 400, 321-326.	1.0	56
3	GMI detection of magnetic-particle concentration in continuous flow. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 103-108.	2.0	53
4	Sensor Applications of Soft Magnetic Materials Based on Magneto-Impedance, Magneto-Elastic Resonance and Magneto-Electricity. <i>Sensors</i> , 2014, 14, 7602-7624.	2.1	49
5	FeNi-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	47
6	Tailoring the magnetic anisotropy of thin film permalloy microstrips by combined shape and induced anisotropies. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	41
7	Flexible thin film magnetoimpedance sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 415, 91-96.	1.0	41
8	Cu-coated cellulose nanopaper for green and low-cost electronics. <i>Cellulose</i> , 2016, 23, 1997-2010.	2.4	41
9	Nanostructured giant magneto-impedance multilayers deposited onto flexible substrates for low pressure sensing. <i>Nanoscale Research Letters</i> , 2012, 7, 230.	3.1	34
10	FeNi-based magnetic layered nanostructures: Magnetic properties and giant magnetoimpedance. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	32
11	Magnetic Properties and Giant Magnetoimpedance of FeNi-Based Nanostructured Multilayers With Variable Thickness of the Central Cu Lead. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3328-3331.	1.2	31
12	Nanostructured Magnetoimpedance Multilayers. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 1375-1380.	1.2	29
13	High Performance Magnetoimpedance in FeNi/Ti Nanostructured Multilayers with Opened Magnetic Flux. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 7496-7500.	0.9	24
14	GMI in Nanostructured FeNi/Ti Multilayers With Different Thicknesses of the Magnetic Layers. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 18-21.	1.2	24
15	Magnetoimpedance of thin film meander with composite coating layer containing Ni nanoparticles. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	21
16	FeNi-based flat magnetoimpedance nanostructures with open magnetic flux: New topological approaches. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 220-225.	1.0	21
17	Differences in the Magneto-Impedance of FeNi/Cu/FeNi Multilayers With Open and Closed Magnetic Path. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 658-661.	1.2	20
18	Equivalent Magnetic Noise of Micro-Patterned Multilayer Thin Films Based GMI Microsensor. <i>IEEE Sensors Journal</i> , 2015, 15, 6707-6714.	2.4	19

#	ARTICLE	IF	CITATIONS
19	Magnetoimpedance biosensor prototype for ferrogel detection. Journal of Magnetism and Magnetic Materials, 2017, 441, 650-655.	1.0	17
20	Printed Capacitive Sensors Based on Ionic Liquid/Metal-Organic Framework Composites for Volatile Organic Compounds Detection. Advanced Functional Materials, 2021, 31, 2010703.	7.8	17
21	Thin-Film Magnetoimpedance Structures Onto Flexible Substrates as Deformation Sensors. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	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.	1.3	15
23	High-Frequency Magnetoimpedance Response of Thin-Film Microstructures Using Coplanar Waveguides. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	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.	4.0	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.	2.8	10
26	Comparison of Micro-Fabrication Routes for Magneto-Impedance Elements: Lift-Off and Wet-Etching. IEEE Transactions on Magnetics, 2012, 48, 1601-1604.	1.2	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.	1.7	6
29	Domain structure, magnetic properties, and giant magnetoimpedance of FeNi/Ti-based multilayers. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2269-2272.	0.8	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.	1.3	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.	1.5	4
34	Magnetic reversal and thermal stability of CoFeB perpendicular magnetic tunnel junction arrays patterned by block copolymer lithography. Nanotechnology, 2018, 29, 275302.	1.3	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.	1.2	0