

Sorin Corodeanu

List of Publications by Year in descending order

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papers

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840776

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33
all docs

33
docs citations

33
times ranked

282
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwire array for giant magneto-impedance detection of magnetic particles for biosensor prototype. Journal of Magnetism and Magnetic Materials, 2007, 311, 425-428.	2.3	72
2	Rapidly solidified amorphous nanowires. Journal of Applied Physics, 2011, 109, .	2.5	58
3	Magnetic behavior of rapidly quenched submicron amorphous wires. Journal of Applied Physics, 2010, 107, .	2.5	56
4	Ultrathin Nanocrystalline Magnetic Wires. Crystals, 2017, 7, 48.	2.2	53
5	Accurate measurement of domain wall velocity in amorphous microwires, submicron wires, and nanowires. Review of Scientific Instruments, 2011, 82, 094701.	1.3	36
6	Interdomain wall in amorphous glass-coated microwires. Physical Review B, 2007, 76, .	3.2	35
7	Domain wall velocity in submicron amorphous wires. Journal of Applied Physics, 2011, 109, .	2.5	27
8	Magnetic Characterization of Submicron Wires and Nanowires Using Digital Integration Techniques. IEEE Transactions on Magnetics, 2011, 47, 3513-3515.	2.1	27
9	Size triggered change in the magnetization mechanism of nearly zero magnetostrictive amorphous glass-coated microwires. Journal of Applied Physics, 2007, 101, 09N116.	2.5	22
10	Development of Fe-Nb-Cr Glassy Alloys With Low Curie Temperature and Enhanced Soft Magnetic Properties. IEEE Transactions on Magnetics, 2011, 47, 3791-3794.	2.1	21
11	Magnetoelastic Sensors for the Detections of Pulse Waves. IEEE Transactions on Magnetics, 2013, 49, 117-119.	2.1	14
12	GMI Effect in Amorphous Glass Covered Microwires as a Function of the Internal Induced Stresses. IEEE Transactions on Magnetics, 2006, 42, 3359-3361.	2.1	11
13	Dipolar Interaction Between Amorphous Microwires. IEEE Transactions on Magnetics, 2008, 44, 479-484.	2.1	11
14	Mechanical properties of magnetic Fe-based and Co-based amorphous wires and microwires. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 648-651.	1.8	10
15	Near-Surface Magnetic Structure and GMI Response in Amorphous Microwires. IEEE Transactions on Magnetics, 2009, 45, 4282-4285.	2.1	9
16	Effect of <i>In Situ</i> Glass Removal on the Magnetic Switching in Amorphous Microwires. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	9
17	Magneto-impedance sensor for quasi-noncontact monitoring of breathing, pulse rate and activity status. Journal of Applied Physics, 2014, 115, 17A301.	2.5	9
18	Magnetization Process and GMI Effect in As-Cast Nanocrystalline Microwires. IEEE Transactions on Magnetics, 2010, 46, 380-382.	2.1	8

#	ARTICLE	IF	CITATIONS
19	Optimized GMI Response of Co-Based Amorphous Glass-Coated Microwires by Direct Control Over the Magnetoelastic Anisotropy From the Surface Region. IEEE Transactions on Magnetics, 2007, 43, 2977-2979.	2.1	7
20	Magnetic anisotropy in rapidly quenched amorphous glass-coated nanowires. Journal of Magnetism and Magnetic Materials, 2016, 410, 100-104.	2.3	7
21	Flexible Force Sensors Based on Permeability Change in Ultra-Soft Amorphous Wires. IEEE Sensors Journal, 2019, 19, 6644-6649.	4.7	7
22	Single step nanocrystallization of FeCuNbSiB/CoPt(Cu) soft/hard magnetic multilayer microwires. Journal of Alloys and Compounds, 2013, 554, 150-155.	5.5	6
23	Magnetostatic and Magnetoelastic Interactions in Glass-Coated Magnetostrictive Nanowires. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
24	Magnetization Reversal in Zero-Magnetostrictive Rapidly Solidified Amorphous Nanowires. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
25	Microstructure and magnetic properties of FINEMET nanowires. Journal of Applied Physics, 2013, 113, .	2.5	5
26	As-cast nanocrystalline glass-coated microwires. Journal of Alloys and Compounds, 2014, 615, S265-S268.	5.5	5
27	Influence of cold drawing on the magnetic properties and giant magneto-impedance response of FINEMET nanocrystalline wires. Journal of Applied Physics, 2015, 117, 17A314.	2.5	5
28	Long GMI sensors for the detection of repetitive deformation of a surface. AIP Advances, 2017, 7, .	1.3	4
29	Fe ²⁺ (Au,Cu) ²⁺ two-phase magnetic microwires with exchange coupled nanosized grains. Journal of Applied Physics, 2008, 103, 07E725.	2.5	2
30	Magnetic Properties of CoFeSiB/(Co, CoPtRh) Multilayer Microwires. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
31	Stochastic Magnetization Switching in Rapidly Solidified (Co _{0.94} Fe _{0.06}) _{72.5} Si _{12.5} B ₁₅ Amorphous Submicronic Wires. Materials, 2022, 15, 896.	2.9	1
32	Development of $\sim 100\%$ crystallographic texture in magnetostrictive Fe ²⁺ Ga microwires produced by in-rotating water spinning method. Journal of Applied Physics, 2011, 109, 07A927.	2.5	0
33	Pulse Wave Detection Magnetoelastic Sensing Device Based on Nanocrystalline Microwires for the Indirect Diagnosis of Paroxysmal Rhythm Disorders. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	0