

Alfredo GarcÃ-a Arribas

List of Publications by Year in descending order

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147
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docs citations

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1809
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetoelastic Resonance Detection of Calcium Oxalate Precipitation in Low Concentration Solutions. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	4
2	Magnetic Anisotropy of Individual Nanomagnets Embedded in Biological Systems Determined by Axi-asymmetric X-ray Transmission Microscopy. ACS Nano, 2022, 16, 7398-7408.	7.3	4
3	Study of the influence of sensor permeability in the detection of a single magnetotactic bacterium. Journal of Magnetism and Magnetic Materials, 2020, 500, 166346.	1.0	3
4	Magnetotactic bacteria for cancer therapy. Journal of Applied Physics, 2020, 128, .	1.1	37
5	Improved Determination of Q Quality Factor and Resonance Frequency in Sensors Based on the Magnetoelastic Resonance Through the Fitting to Analytical Expressions. Materials, 2020, 13, 4708.	1.3	8
6	Real Time Monitoring of Calcium Oxalate Precipitation Reaction by Using Corrosion Resistant Magnetoelastic Resonance Sensors. Sensors, 2020, 20, 2802.	2.1	10
7	Half-hedgehog spin textures in sub-100 nm soft magnetic nanodots. Nanoscale, 2020, 12, 18646-18653.	2.8	15
8	Elucidating the role of shape anisotropy in faceted magnetic nanoparticles using biogenic magnetosomes as a model. Nanoscale, 2020, 12, 16081-16090.	2.8	15
9	Disk-shaped magnetic particles for cancer therapy. Applied Physics Reviews, 2020, 7, .	5.5	32
10	The Performance of the Magneto-Impedance Effect for the Detection of Superparamagnetic Particles. Sensors, 2020, 20, 1961.	2.1	9
11	Damping of Magnetoelastic Resonance for Oil Viscosity Sensing. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	9
12	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. Nanoscale, 2018, 10, 7407-7419.	2.8	47
13	Magnetic Study of Co-Doped Magnetosome Chains. Journal of Physical Chemistry C, 2018, 122, 7541-7550.	1.5	24
14	Magnetic Nanoparticles, Synthesis, Properties, and Applications. , 2018, , 1-40.		23
15	Broadband ferromagnetic resonance measurements in thin-film structures for magnetoimpedance sensors. Measurement: Journal of the International Measurement Confederation, 2018, 126, 215-222.	2.5	10
16	Motor current signature analysis for gearbox condition monitoring under transient speeds using wavelet analysis and dual-level time synchronous averaging. Mechanical Systems and Signal Processing, 2017, 94, 73-84.	4.4	51
17	Thin-Film Magnetoimpedance Structures Onto Flexible Substrates as Deformation Sensors. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	16
18	Magnetization reversal in circular vortex dots of small radius. Nanoscale, 2017, 9, 11269-11278.	2.8	29

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19	Surfactant-assisted production of TbCu ₂ nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	4
20	Comparative study of magnetic and magnetoimpedance properties of CoFeSiB-based amorphous ribbons of the same geometry with Mo or W additions. Journal of Alloys and Compounds, 2017, 693, 767-776.	2.8	18
21	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
22	Thin-Film Magneto-Impedance Sensors. , 2017, , .		5
23	Magnetoimpedance in samples with patterned surfaces for the detection of ferrofluids. , 2017, , .		0
24	Flexible thin film magnetoimpedance sensors. Journal of Magnetism and Magnetic Materials, 2016, 415, 91-96.	1.0	41
25	High-yield fabrication of 60 nm Permalloy nanodiscs in well-defined magnetic vortex state for biomedical applications. Nanotechnology, 2016, 27, 175302.	1.3	34
26	Energy-saving control strategies for a ferromagnetic shape memory alloy based actuator. Sensors and Actuators A: Physical, 2016, 249, 112-121.	2.0	2
27	Thin-film magneto-impedance structures with very large sensitivity. Journal of Magnetism and Magnetic Materials, 2016, 400, 321-326.	1.0	56
28	High-Frequency Magnetoimpedance Response of Thin-Film Microstructures Using Coplanar Waveguides. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	14
29	Giant magnetoimpedance biosensor for ferrogel detection: Model system to evaluate properties of natural tissue. Applied Physics Letters, 2015, 106, .	1.5	71
30	Equivalent Magnetic Noise of Micro-Patterned Multilayer Thin Films Based GMI Microsensor. IEEE Sensors Journal, 2015, 15, 6707-6714.	2.4	19
31	350% Magneto-impedance ratio in thin-film structures. , 2015, , .		0
32	A Novel Micro- and Nano-Scale Positioning Sensor Based on Radio Frequency Resonant Cavities. Sensors, 2014, 14, 9615-9627.	2.1	1
33	Sensor Applications of Soft Magnetic Materials Based on Magneto-Impedance, Magneto-Elastic Resonance and Magneto-Electricity. Sensors, 2014, 14, 7602-7624.	2.1	49
34	Equivalent magnetic noise of thin film based giant magneto-impedance microsensors. , 2014, , .		0
35	Magnetoimpedance of thin film meander with composite coating layer containing Ni nanoparticles. Journal of Applied Physics, 2014, 115, .	1.1	21
36	Pulsed-mode operation and performance of a ferromagnetic shape memory alloy actuator. Smart Materials and Structures, 2014, 23, 025023.	1.8	13

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37	Comparative study of magnetic, microwave properties and giant magnetoimpedance of FeNi-based multilayers with different structure. <i>Journal of Alloys and Compounds</i> , 2014, 615, S296-S299.	2.8	10
38	Tailoring the Exchange Bias in FeNi/FeMn Bilayers by Heat Treatment and FeMn Surface Oxidation. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	5
39	Determination of the distribution of transverse magnetic anisotropy in thin films from the second harmonic of Kerr signal. <i>Applied Physics Letters</i> , 2013, 103, 142411.	1.5	4
40	Electronic interface for position sensing using resonant cavities. , 2013, , .		0
41	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
42	Magnetoelastic Viscosity Sensor for On-Line Status Assessment of Lubricant Oils. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 113-116.	1.2	15
43	Preface [Selected Papers from the 9th European Magnetic Sensors and Actuators Conference (EMSA) Tj ETQq1 1 0,784314 rgBT /Overle 1.2 7	1.2	7
44	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
45	Exchange biased FeNi/FeMn bilayers with coercivity and switching field enhanced by FeMn surface oxidation. <i>AIP Advances</i> , 2013, 3, .	0.6	16
46	Interface electronics for an RF resonance-based displacement sensor. <i>Journal of Physics: Conference Series</i> , 2013, 450, 012017.	0.3	3
47	Reluctance Sensor for Penetration Depth Control in Friction Stir Welding. <i>Sensor Letters</i> , 2013, 11, 62-65.	0.4	1
48	Evaluation of a Thin Film Giant Magneto-Impedance Electronic Compass. <i>Sensor Letters</i> , 2013, 11, 36-39.	0.4	2
49	FeNi-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	47
50	Design of a new FSMA-based actuator for nanopositioning applications. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
51	Ferromagnetic shape memory alloy actuator enabled for nanometric position control using hysteresis compensation. <i>Sensors and Actuators A: Physical</i> , 2012, 182, 122-129.	2.0	30
52	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
53	Nanostructured giant magneto-impedance multilayers deposited onto flexible substrates for low pressure sensing. <i>Nanoscale Research Letters</i> , 2012, 7, 230.	3.1	34
54	Nanostructured Magnetoimpedance Multilayers. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 1375-1380.	1.2	29

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55	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
56	GMI detection of magnetic-particle concentration in continuous flow. Sensors and Actuators A: Physical, 2011, 172, 103-108.	2.0	53
57	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.	1.2	31
58	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
59	Magnetoelasticity in amorphous ferromagnets: Basic principles and applications. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2258-2264.	0.8	21
60	Structure and Magnetic Properties of Thin Permalloy Films Near the "Transcritical" State. IEEE Transactions on Magnetics, 2010, 46, 333-336.	1.2	114
61	Differences in the Magneto-Impedance of FeNi/Cu/FeNi Multilayers With Open and Closed Magnetic Path. IEEE Transactions on Magnetics, 2010, 46, 658-661.	1.2	20
62	GMI magnetic-particle concentration detection in continuous flow. Procedia Engineering, 2010, 5, 1324-1327.	1.2	1
63	Sensorless Control of SMA-based Actuators Using Neural Networks. Journal of Intelligent Material Systems and Structures, 2010, 21, 1809-1818.	1.4	22
64	FeNi-Based Film Nanostructures for High Frequency Applications: Design and Characterization. Solid State Phenomena, 2010, 168-169, 257-260.	0.3	6
65	FeNi-based magnetic layered nanostructures: Magnetic properties and giant magnetoimpedance. Journal of Applied Physics, 2010, 107, .	1.1	32
66	Micropositioning control of smart shape-memory alloy-based actuators. Assembly Automation, 2009, 29, 272-278.	1.0	7
67	Ferromagnetic shape memory alloys for positioning with nanometric resolution. Applied Physics Letters, 2009, 95, .	1.5	19
68	Multilayer Magnetoimpedance Sensor for Nondestructive Testing. Sensor Letters, 2009, 7, 374-377.	0.4	12
69	Ferromagnetic Shape Memory Alloy Actuator for Micro- and Nano-Positioning. Sensor Letters, 2009, 7, 348-350.	0.4	8
70	Neural network-based micropositioning control of smart shape memory alloy actuators. Engineering Applications of Artificial Intelligence, 2008, 21, 796-804.	4.3	43
71	Low field magnetoimpedance in the GHz range. Sensors and Actuators A: Physical, 2008, 142, 485-490.	2.0	11
72	Finite element method calculations of GMI in thin films and sandwiched structures: Size and edge effects. Journal of Magnetism and Magnetic Materials, 2008, 320, e4-e7.	1.0	19

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73	Frequency dependence of the ferromagnetic resonance width in magneto-impedance measurements. Journal of Magnetism and Magnetic Materials, 2008, 320, 2513-2516.	1.0	7
74	High-frequency magnetoimpedance in multilayer thin films with longitudinal and transverse anisotropy. Journal of Magnetism and Magnetic Materials, 2008, 320, e954-e957.	1.0	17
75	FEM simulation of the Nitinol wire. European Physical Journal: Special Topics, 2008, 158, 39-44.	1.2	5
76	Micropositioning using shape memory alloy actuators. European Physical Journal: Special Topics, 2008, 158, 231-236.	1.2	11
77	Angular dependence of microwave absorption in multilayer films. Journal of Non-Crystalline Solids, 2008, 354, 5195-5197.	1.5	7
78	Longitudinal and Transverse Magnetoimpedance in FeNi/Cu/FeNi Multilayers With Longitudinal and Transverse Anisotropy. IEEE Transactions on Magnetics, 2008, 44, 3863-3866.	1.2	10
79	Experimental and theoretical correlation between low-field power absorption and magnetoimpedance in amorphous materials. Journal of Non-Crystalline Solids, 2007, 353, 902-904.	1.5	15
80	Low Field Sensitivity for Gigahertz Magneto-Impedance Sensors. Sensor Letters, 2007, 5, 73-76.	0.4	6
81	A Special Issue "The European Magnetic Sensor and Actuator Conference (EMSA 2006). Sensor Letters, 2007, 5, 1-1.	0.4	2
82	FEM analysis of an eddy current water flow meter. Journal of Magnetism and Magnetic Materials, 2006, 304, e838-e840.	1.0	4
83	Non-linear magnetoimpedance in amorphous ribbons: Large asymmetries and angular dependence. Sensors and Actuators A: Physical, 2006, 129, 275-278.	2.0	9
84	Very large magnetoimpedance (MI) in FeNi/Au multilayer film systems. Sensors and Actuators A: Physical, 2006, 129, 256-259.	2.0	40
85	Magnetostrictive delay line improvement for long range position detection. Sensors and Actuators A: Physical, 2006, 129, 138-141.	2.0	6
86	Ferromagnetic resonance in gigahertz magneto-impedance of multilayer systems. Journal of Magnetism and Magnetic Materials, 2006, 304, 218-221.	1.0	6
87	Transition from quasistatic to ferromagnetic resonance regime in giant magnetoimpedance. Journal of Applied Physics, 2006, 99, 103904.	1.1	57
88	Determination of the intrinsic high-frequency magnetoimpedance spectra of multilayer systems. Journal of Applied Physics, 2006, 99, 08C507.	1.1	9
89	Micropositioning control using shape memory alloys. , 2006, , .		0
90	Micropositioning Control Using Shape Memory Alloys. , 2006, , .		4

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91	Impedance matching networks for power transfer and sensitivity enhancement in GMI sensors. IEEE Transactions on Magnetics, 2005, 41, 3655-3657.	1.2	5
92	Magnetoimpedance in narrow NiFe/Au/NiFe multilayer film systems. IEEE Transactions on Magnetics, 2005, 41, 3697-3699.	1.2	18
93	Experimental evidence of ferromagnetic resonance in magnetoimpedance measurements. IEEE Transactions on Magnetics, 2005, 41, 3649-3651.	1.2	10
94	Transverse magnetization and giant magnetoimpedance in amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1081-1084.	1.0	5
95	Giant Magneto-Impedance Measurements at High Frequency in Planar Samples. Transactions of the Magnetics Society of Japan, 2005, 5, 152-156.	0.5	0
96	Simplified electronic interfaces for sensors based on inductance changes. Sensors and Actuators A: Physical, 2004, 112, 302-307.	2.0	6
97	Analysis of magnetoimpedance measurements at high frequency using a microstrip transmission line. Sensors and Actuators A: Physical, 2004, 115, 368-375.	2.0	48
98	Study of the magnetic anisotropy induced in CoFeSiB amorphous ribbons by solidification in a magnetic field using giant magnetoimpedance measurements. Physica B: Condensed Matter, 2004, 354, 183-186.	1.3	3
99	In situ observation of the structural changes induced by thermal annealing on melt-spun Co ₁₅ Cu ₈₅ granular alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 82-84.	1.0	0
100	Synthesis and characterisation of electrodeposited Cu ₉₀ Co ₁₀ thin film. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 85-87.	1.0	4
101	Selectable temperature sensitivity of the magnetoelastic resonance. Sensors and Actuators A: Physical, 2003, 106, 111-116.	2.0	16
102	Advantages of nonlinear giant magnetoimpedance for sensor applications. Sensors and Actuators A: Physical, 2003, 106, 234-239.	2.0	42
103	Microstructural and magnetic evolution upon annealing of giant magnetoresistance melt-spun Co-Cu granular alloys. Physical Review B, 2003, 67, .	1.1	35
104	Domain wall permeability limit for the giant magnetoimpedance effect. Journal of Applied Physics, 2002, 91, 7451.	1.1	13
105	Influence of magnetization processes and device geometry on the GMI effect. IEEE Transactions on Magnetics, 2002, 38, 3051-3056.	1.2	42
106	Direct experimental evidence of an anomalous Co segregation in Co-Cu granular alloys and its influence on magnetoresistance. Europhysics Letters, 2002, 59, 855-861.	0.7	14
107	Correlation among the structural and magnetic properties of CoCu granular alloys. Journal of Applied Physics, 2002, 91, 8596.	1.1	5
108	Preparation and characterisation of Cu-Co heterogeneous alloys by potentiostatic electrodeposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 335, 94-100.	2.6	36

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109	Magnetoimpedance of sandwiched films: experimental results and numerical calculations. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 291-293.	1.0	36
110	Magnetoimpedance simulations in wires and tubes. Journal of Magnetism and Magnetic Materials, 2002, 249, 319-323.	1.0	6
111	Influence of the preparation method on the properties of Cu-Co heterogeneous alloys. Journal of Non-Crystalline Solids, 2001, 287, 26-30.	1.5	7
112	Influence of metalloids on the XANES spectra of metallic glasses. Journal of Non-Crystalline Solids, 2001, 287, 60-64.	1.5	2
113	The magnetoelastic properties of as-quenched and annealed Fe _{73.5} Al _x Si _{13.5} B ₉ Cu ₁ Mo ₃ (x=0,2,4,6) alloys. Journal of Non-Crystalline Solids, 2001, 287, 428-431.	1.5	6
114	Magnetization evolution during thermal treatments of CoCu metastable alloys. Journal of Non-Crystalline Solids, 2001, 287, 282-285.	1.5	0
115	Observation of the segregation and the dissolution of the Co and the Cu in CoCu metastable alloys. Journal of Synchrotron Radiation, 2001, 8, 883-885.	1.0	2
116	Giant magnetoimpedance strip and coil sensors. Sensors and Actuators A: Physical, 2001, 91, 116-119.	2.0	36
117	Comparative study of alternative circuit configurations for inductive sensors. Sensors and Actuators A: Physical, 2001, 91, 226-229.	2.0	8
118	Joule heating nanocrystallization of FeZrCuB glass studied by neutron diffraction. Physica B: Condensed Matter, 2000, 276-278, 461-462.	1.3	2
119	Structural evolution of Co clusters in Co ₁₅ Cu ₈₅ granular alloys by EXAFS spectroscopy. Journal of Magnetism and Magnetic Materials, 2000, 221, 80-86.	1.0	18
120	Giant magnetoimpedance in CoP electrodeposited microtubes. Journal of Materials Research, 2000, 15, 751-755.	1.2	41
121	Comparative study of the structure and magnetic properties of Co-P and Fe-P amorphous alloys. Physical Review B, 2000, 61, 6238-6245.	1.1	13
122	Magnetoelastic coupling constant of amorphous ferromagnetic alloys-A critical study. IEEE Transactions on Magnetics, 2000, 36, 3241-3243.	1.2	3
123	Local structure and ferromagnetic character of Fe-B and Fe-P amorphous alloys. Physical Review B, 2000, 62, 5746-5750.	1.1	36
124	Differential anomalous scattering on Fe-Co-based metallic glasses. Journal of Physics Condensed Matter, 1999, 11, 10199-10210.	0.7	1
125	Magnetic study of electrodeposited Cu-Co heterogeneous alloys. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 53-55.	1.0	3
126	Structure and magnetic properties of Fe-Co-P amorphous alloys. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 164-165.	1.0	7

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127	Different ferromagnetic character of Fe in FeB and FeP amorphous alloys. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 204-206.	1.0	3
128	Medium-range order as an intrinsic property of Co-rich amorphous alloys. Europhysics Letters, 1997, 40, 43-48.	0.7	12
129	On the origin of the nonlinear and chaotic behavior of the magnetoelastic resonance. Journal of Applied Physics, 1997, 81, 5686-5688.	1.1	3
130	Two phase magnetic wire obtained by high frequency current annealing. IEEE Transactions on Magnetics, 1997, 33, 3343-3345.	1.2	3
131	Observation of a Strong Short Range Order in Co Rich Amorphous Alloys Prepared by Different Methods. European Physical Journal Special Topics, 1997, 7, C2-995-C2-996.	0.2	1
132	Influence of the Structure in Magnetic Properties in Co-P Electrodeposited Amorphous Alloys. European Physical Journal Special Topics, 1997, 7, C2-997-C2-998.	0.2	0
133	Preparation of Fe _{1-x} Co _x P amorphous alloys by electrodeposition. Journal of Non-Crystalline Solids, 1996, 201, 102-109.	1.5	14
134	$\hat{\mu}^E$ effect and anisotropy distribution in metallic glasses with oblique easy axis induced by field annealing. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 543-544.	1.0	10
135	Influence of induced anisotropy on magneto-impedance in Co-rich metallic glasses. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 141-142.	1.0	29
136	EXAFS study of compositional dependence of short range order in amorphous FeP electrodeposited alloys. Physica B: Condensed Matter, 1995, 208-209, 363-364.	1.3	4
137	Comparison of magnetoelastic resonance and vibrating reed measurements of the large $\hat{\mu}^E$ effect in amorphous alloys. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 273-274.	1.0	13
138	Correlation between structure and magnetic behavior of Fe-P amorphous alloys. Physical Review B, 1995, 52, 12805-12812.	1.1	25
139	Evolution of the magnetic anisotropy distribution of Co-P amorphous alloys during crystallization. Journal of Magnetism and Magnetic Materials, 1994, 131, 129-134.	1.0	4
140	Magnetic anisotropy distribution in transverse and obliquely field annealed amorphous ribbons. Journal of Magnetism and Magnetic Materials, 1994, 133, 46-48.	1.0	5
141	Anisotropy field distribution in amorphous ferromagnetic alloys from second harmonic response. Journal of Applied Physics, 1992, 71, 3047-3049.	1.1	32
142	Magnetoelastic behaviour of stress-annealed Co _{73.5} Fe _{1.5} Si ₁₅ B ₁₀ amorphous ribbon. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 107-108.	1.0	7
143	Nano-Positioning with Ferromagnetic Shape Memory Alloy Actuators. Materials Science Forum, 0, 635, 201-205.	0.3	4
144	Magnetoelastic Viscosity Sensor for Lubricant Oil Condition Monitoring. Key Engineering Materials, 0, 495, 71-74.	0.4	0

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145	Innovative On-Line Oil Sensor Technologies for the Condition Monitoring of Wind Turbines. Key Engineering Materials, 0, 644, 53-56.	0.4	3
146	Co/Cu/Co Pseudo Spin-Valve System Prepared by Magnetron Sputtering with Different Argon Pressure. Key Engineering Materials, 0, 644, 211-214.	0.4	5
147	Correction to "Magnetic Study of Co-Doped Magnetosome Chains". Journal of Physical Chemistry C, 0, , .	1.5	0