

Roman Szewczyk

List of Publications by Year in descending order

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155
papers

1,045
citations

471061

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191
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191
docs citations

191
times ranked

591
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved gyrator-capacitor modeling of inductive components with a FINEMET-type nanocrystalline alloy core using SPICE. Journal of Magnetism and Magnetic Materials, 2022, 555, 169376.	1.0	2
2	Modelling the magnetoinductive effect for coil-less magnetomechanical strain and force sensors. Measurement: Journal of the International Measurement Confederation, 2022, 200, 111436.	2.5	1
3	Improved Control of Mesh Density in Adaptive Tetrahedral Meshes for Finite Element Modeling. , 2022, 26, 23-28.	0.1	0
4	Sensitivity Limits and Functional Characteristics of Fluxgate Sensors with Rod-Shaped Magnetic Cores. , 2022, 26, 29-33.	0.1	0
5	Inverse Transformation in Eddy Current Tomography with Continuous Optimization of Reference Defect Parameters. Materials, 2021, 14, 4778.	1.3	0
6	Elementary, Atomic-Level Friction Processes in Systems with Metallic Inclusionsâ€™ Systematic Simulations for a Wide Range of Local Pressures. Materials, 2021, 14, 4351.	1.3	1
7	The Influence of Mesh Granularity on the Accuracy of FEM Modelling of the Resonant State in a Microwave Chamber. Applied Sciences (Switzerland), 2021, 11, 7932.	1.3	1
8	A FEM-Based Optimization Method for Driving Frequency of Contactless Magnetoelastic Torque Sensors in Steel Shafts. Materials, 2021, 14, 4996.	1.3	2
9	LTspice Implementation of Gyrator-Capacitor Magnetic Circuit Model Considering Losses and Magnetic Saturation for Transient Simulations of Switching Mode Power Supplies Utilizing Inductive Elements with Cores Made of Amorphous Alloys. Advances in Intelligent Systems and Computing, 2021, , 416-424.	0.5	0
10	Modelling the Characteristics of Ring-Shaped Magnetoelastic Force Sensor in Mohriâ€™s Configuration. Sensors, 2020, 20, 266.	2.1	6
11	Generalization of the Model of Magnetoelastic Effect: 3D Mechanical Stress Dependence of Magnetic Permeability Tensor in Soft Magnetic Materials. Materials, 2020, 13, 4070.	1.3	8
12	Novel Giant Magnetoimpedance Magnetic Field Sensor. Sensors, 2020, 20, 691.	2.1	13
13	Explicitness of Parameters Identification in An hysteretic Curve of Magnetic Materials with Strong Perpendicular Anisotropy. Advances in Intelligent Systems and Computing, 2020, , 664-671.	0.5	1
14	Stability of Jiles-Atherton An hysteretic Magnetization Curve Model for Magnetic Materials with Uniaxial Anisotropy. Advances in Intelligent Systems and Computing, 2020, , 353-358.	0.5	1
15	Investigation of high order harmonic for signal extraction in Matteucci effect based fluxgate magnetic sensors. AIP Conference Proceedings, 2019, , .	0.3	1
16	Unified First Order Inertial Element Based Model of Magnetostrictive Hysteresis and Lift-Off Phenomenon. Materials, 2019, 12, 1689.	1.3	5
17	Strain Dependence of Hysteretic Giant Magnetoimpedance Effect in Co-Based Amorphous Ribbon. Materials, 2019, 12, 2110.	1.3	14
18	Progress in development of Jiles-Atherton model of magnetic hysteresis. AIP Conference Proceedings, 2019, , .	0.3	2

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19	Model of the Magnetostrictive Hysteresis Loop with Local Maximum. <i>Materials</i> , 2019, 12, 105.	1.3	9
20	Determination of the Location and Magnetic Moment of Ferromagnetic Objects Based on the Analysis of Magnetovision Measurements. <i>Sensors</i> , 2019, 19, 337.	2.1	5
21	Experimental Verification of Isotropic and Anisotropic An hysteretic Magnetization Models. <i>Materials</i> , 2019, 12, 1549.	1.3	12
22	Investigation of Newly Developed Microwave Heated Moisture Analyzer Measurements of Ketchup and Milk Samples in Climatic Chamber. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 377-383.	0.5	0
23	Comparison of Stress-Impedance Effect in Amorphous Ribbons with Positive and Negative Magnetostriction. <i>Materials</i> , 2019, 12, 275.	1.3	21
24	Influence of Torsion on Matteucci Effect Signal Parameters in Co-Based Bistable Amorphous Wire. <i>Materials</i> , 2019, 12, 532.	1.3	7
25	Modeling the Influence of a Magnetomechanical Effect on the Permeability Tensor of a Tensductor Core. <i>Materials</i> , 2019, 12, 4023.	1.3	1
26	Quasi-Free-Standing Bilayer Graphene Hall-Effect Sensor. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	1.2	5
27	The Model of Development of Production Process in Biomedical Production Plant. , 2019, 23, 43-46.	0.1	0
28	Modeling the Hysteresis Loop of Ultra-High Permeability Amorphous Alloy for Space Applications. <i>Materials</i> , 2018, 11, 2079.	1.3	9
29	Magnetostrictive Properties of Mn _{0.70} Zn _{0.24} Fe _{2.06} O ₄ Ferrite. <i>Materials</i> , 2018, 11, 1894.	1.3	7
30	Influence of alloy composition on GMI effect in amorphous ribbons. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
31	Thin-Layer Based Devices. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 25-35.	0.3	0
32	Magnetic Materials and Magnetization Process. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 3-23.	0.3	0
33	Sensitivity of Jiles-Atherton model parameters identified during the optimization process. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	7
34	Spectral analysis of Matteucci effect based magnetic field sensor. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	5
35	Measurement System for Magnetic Field Sensors Testing with Earth's Magnetic Field Compensation. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 613-618.	0.5	5
36	Two Step, Differential Evolution-Based Identification of Parameters of Jiles-Atherton Model of Magnetic Hysteresis Loops. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 635-641.	0.5	3

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37	Temperature Influence on Matteucci Effect in Fe-Based Amorphous Wire. Advances in Intelligent Systems and Computing, 2018, , 642-647.	0.5	1
38	Modified Description of Magnetic Hysteresis in Jiles-Atherton Model. Advances in Intelligent Systems and Computing, 2018, , 648-654.	0.5	5
39	DC Magnetic Field Sensor Based on Matteucci Effect. Advances in Intelligent Systems and Computing, 2018, , 739-745.	0.5	3
40	Mobile Ferrograph System for Ultrahigh Permeability Alloys. Journal of Automation, Mobile Robotics and Intelligent Systems, 2018, 12, 40-42.	0.4	3
41	FEM " Based Simulations of Selected Setups of Magnetic Field Tomography. Advances in Intelligent Systems and Computing, 2018, , 395-401.	0.5	0
42	Investigation of Magnetic Properties of Amorphous Fe-Based Alloy Magnetized in Rayleigh Region. Advances in Intelligent Systems and Computing, 2018, , 126-132.	0.5	0
43	Visualization River Water Level Using Internet Technologies. Advances in Intelligent Systems and Computing, 2018, , 14-22.	0.5	1
44	Final Remarks and Conclusions. Lecture Notes in Electrical Engineering, 2018, , 107-108.	0.3	0
45	Implementation of IT Solutions for the Quality Management System Based on ISO 13485 (2016) Standard in a Biomedical Company in Poland. Advances in Intelligent Systems and Computing, 2018, , 244-253.	0.5	0
46	FEM-Based Forward Eddy Current Tomography Transformation for Automotive Industry. Advances in Intelligent Systems and Computing, 2018, , 688-693.	0.5	0
47	Digitally Controlled Thermoelectric Ammeter. Advances in Intelligent Systems and Computing, 2018, , 665-671.	0.5	0
48	Microprocessor Based Assmann Psychrometer. Advances in Intelligent Systems and Computing, 2018, , 628-634.	0.5	1
49	Key Factors Influencing the Accuracy of Harmonic Gears for Space Applications. Advances in Intelligent Systems and Computing, 2018, , 483-489.	0.5	1
50	Optimization of Interpolation for Improved Numeric Calculation of Forward Eddy Current Tomography Transformation. Advances in Intelligent Systems and Computing, 2017, , 481-487.	0.5	2
51	Calorimetric flow meter of motor fuel With Inlet temperature regulation. , 2017, , .		4
52	Algorithms on improvement of accuracy of biofuel temperature measurement in thermo-anemometric flowmeter. , 2017, , .		4
53	Open source ELMER software based FEM modeling of waveguides and resonant cavities for microwave heating and drying devices. Archives of Electrical Engineering, 2017, 66, 745-750.	1.0	4
54	Error Analysis of the Finite Element Method Calculations Depending on the Operating Range. Advances in Intelligent Systems and Computing, 2017, , 75-81.	0.5	2

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55	Capabilities of an Open-Source Software, Elmer FEM, in Finite Element Analysis of Fluid Flow. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 118-126.	0.5	3
56	Advances in FEM Based Modeling of Waveguide and Waveguide Systems for Microwave Applications, Using Newly Developed Open Source Software. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 172-186.	0.5	2
57	Possibilities of Application of the Magnetoelastic Effect for Stress Assessment in Construction Elements Made of Steel Considering Rayleigh Region. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 689-697.	0.5	2
58	Synthesis of Optimal Robust Regulator for Food Processing Facilities. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 58-66.	0.5	20
59	Temperature error of Hall-effect and magnetoresistive commercial magnetometers. <i>Archives of Electrical Engineering</i> , 2017, 66, 625-630.	1.0	4
60	Models of Magnetic Hysteresis Loops Useful for Technical Simulations Using Finite Elements Method (FEM) and Method of the Moments (MoM). <i>Advances in Intelligent Systems and Computing</i> , 2017, , 82-87.	0.5	2
61	Development of Graphene Based Leak Detector. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 495-503.	0.5	0
62	New Type of the Test Stand for Surfaces and Lubricant Tribological Properties Test. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 584-592.	0.5	0
63	Analysis of the Phenomena Occurring During Initial Phase of Resistors Thermal Characteristics Measurement. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 473-480.	0.5	0
64	Time-Domain Reflectometry (TDR) Square and Pulse Test Signals Comparison. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 512-523.	0.5	0
65	Investigation of the Appropriate Method of Mounting Tested Elements in the Test Stand for Temperature Characteristics of Ultra-Precise Resistors. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 448-458.	0.5	0
66	Measurement Setup for the Thermal and Line Regulation Characteristics of Reference Voltage Sources. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 488-494.	0.5	0
67	Vectorization of the Software for Modelling the Magnetostatic Properties of Thin Layers Using the Method of Moments. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 512-518.	0.5	0
68	Comparison of Jiles-Atherton and Bulk Ferromagnetic Hysteresis Models for Modelling the Magnetic Characteristics of Advanced Magnetic Materials. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 488-495.	0.5	0
69	Spatial Modeling of the Influence of Mining-Geometric Indices on the Efficiency of Mining. <i>Archives of Mining Sciences</i> , 2017, 62, 857-869.	0.6	1
70	The Additional Error of Inertial Sensors Induced by Hypersonic Flight Conditions. <i>Sensors</i> , 2016, 16, 299.	2.1	27
71	Investigation of the Effect of Gravity Anomalies on the Precession Motion of Single Gyroscope Gravimeter. <i>Solid State Phenomena</i> , 2016, 251, 139-145.	0.3	2
72	Development of the Operation Algorithm for a Automated System Assessing the High-Rise Building. <i>Solid State Phenomena</i> , 2016, 251, 230-236.	0.3	7

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73	The study of corrosion resistance of Pokostivskiy granodiorites after processing by various chemical and mechanical methods. Construction and Building Materials, 2016, 114, 241-247.	3.2	19
74	E2LP Remote Laboratory: Introduction Course and Evaluation at Warsaw University of Technology. Advances in Intelligent Systems and Computing, 2016, , 133-138.	0.5	0
75	Test Stand for Measuring Magnetostriction Phenomena Under External Mechanical Stress with Foil Strain Gauges. Advances in Intelligent Systems and Computing, 2016, , 843-853.	0.5	2
76	Research of Metal Film Resistor's Temperature Stability According to Their Nominal Wattage. Advances in Intelligent Systems and Computing, 2016, , 807-815.	0.5	1
77	Automated System for Testing Ferromagnetic Materials. Advances in Intelligent Systems and Computing, 2016, , 817-825.	0.5	7
78	Validation of the Model of Anhyseretic Magnetisation Curve of Isotropic Soft Magnetic Materials. Advances in Intelligent Systems and Computing, 2016, , 835-841.	0.5	0
79	Piezoelectric Gravimeter of the Aviation Gravimetric System. Advances in Intelligent Systems and Computing, 2016, , 753-761.	0.5	14
80	Methodology of Reduction of the Offset Voltage in Hall-Effect Sensors. Advances in Intelligent Systems and Computing, 2016, , 763-770.	0.5	5
81	Design of Piezoelectric Gravimeter for Automated Aviation Gravimetric System. Journal of Automation, Mobile Robotics and Intelligent Systems, 2016, 10, 43-47.	0.4	12
82	Technical B-H Saturation Magnetization Curve Models for SPICE, FEM and MoM Simulations. Journal of Automation, Mobile Robotics and Intelligent Systems, 2016, 10, 3-8.	0.4	9
83	APPLICATION OF MAGNETOELASTIC EFFECTS FOR STRESS ASSESMENT AND RISK MITIGATION IN CONSTRUCTIONS. Journal of Engineering Studies and Research, 2016, 21, .	0.1	1
84	Limits of spatial sensitivity in eddy current tomography of spindle-shaped elements. Advances in Intelligent Systems and Computing, 2016, , 285-290.	0.5	0
85	Setup for Stereovision Simulation for Mutual Navigation of Satellites Formation. Advances in Intelligent Systems and Computing, 2016, , 789-795.	0.5	0
86	Assessment of uncertainty of determination of parameters of Jiles-Atherton model of hysteresis loops of isotropic materials. Przegląd Elektrotechniczny, 2016, 1, 164-167.	0.1	2
87	A Mathematical Model of the Thermo-Anemometric Flowmeter. Sensors, 2015, 15, 22899-22913.	2.1	36
88	Temperature Influence on the Magnetic Characteristics of Mn-Zn Ferrite Materials. Advances in Intelligent Systems and Computing, 2015, , 121-127.	0.5	7
89	The Application of the Extended Jiles-Atherton Model for Simulating the Magnetic Characteristics of X30CR13 Steel. Solid State Phenomena, 2015, 220-221, 725-730.	0.3	0
90	New Methodology of Testing the Stress Dependence of Magnetic Hysteresis loop of the L17HMF Heat Resistant Steel Casting. Journal of Automation, Mobile Robotics and Intelligent Systems, 2015, 9, 52-55.	0.4	2

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91	Preparation, Processing and Selected Properties of Modern Melt-Quenched Alloys. Advances in Intelligent Systems and Computing, 2015, , 381-396.	0.5	4
92	Determination of Jiles-Atherton Model Parameters Using Differential Evolution. Advances in Intelligent Systems and Computing, 2015, , 11-18.	0.5	5
93	Wireless Temperature Measurement System Based on the IQRF Platform. Advances in Intelligent Systems and Computing, 2015, , 281-288.	0.5	13
94	Temperature Dependence of Functional Properties of Graphene Hall-Effect Sensors Grown on Si Face and C Face of 4H-SiC Substrate. Advances in Intelligent Systems and Computing, 2015, , 111-120.	0.5	1
95	Study on Graphene Growth Process on Various Bronzes and Copper-Plated Steel Substrates. Advances in Intelligent Systems and Computing, 2015, , 171-180.	0.5	4
96	Study on Tribological Properties of Lubricating Grease with Additive of Graphene. Advances in Intelligent Systems and Computing, 2015, , 181-187.	0.5	8
97	Noise Assessment in Whitney Elements Based Forward Transformation for High Resolution Eddy Current Tomography. Advances in Intelligent Systems and Computing, 2015, , 219-224.	0.5	7
98	Influence of Electromagnetic Pulse Disturbance on the Functional Properties of Ultra-High Resolution Analog to Digital Converter. Advances in Intelligent Systems and Computing, 2015, , 245-254.	0.5	0
99	Graphene Joule Heating Measurements in Environmental Chamber. Advances in Intelligent Systems and Computing, 2015, , 129-135.	0.5	0
100	Analysis of Response Time of Carbon Dioxide Sensor in Chemical Sensor System for Mobile Robot. Advances in Intelligent Systems and Computing, 2015, , 277-284.	0.5	1
101	Functional Performance Testing of Routing Devices in Networks Based on IQMESH Protocol. Advances in Intelligent Systems and Computing, 2015, , 39-47.	0.5	3
102	Investigation of the Functional and Environmental Characteristics of Elements with Graphene Coating. Advances in Intelligent Systems and Computing, 2015, , 237-244.	0.5	0
103	Magnetoelastic Characteristics of Constructional Steel Materials. Advances in Intelligent Systems and Computing, 2015, , 307-315.	0.5	5
104	Distributed Temperature and Humidity Measurement System Utilizing IQMESH Wireless Routing Algorithms. Advances in Intelligent Systems and Computing, 2015, , 1-9.	0.5	3
105	Influence of Protective Layer on the Functional Properties of Monolayer and Bilayer Graphene Hall-Effect Sensors. Advances in Intelligent Systems and Computing, 2015, , 101-109.	0.5	1
106	Influence of Environmental Conditions on Graphene Resistance. Advances in Intelligent Systems and Computing, 2015, , 75-81.	0.5	0
107	Magnetovision Scanner System Investigation of Magnetic Field Disturbance Sources. Advances in Intelligent Systems and Computing, 2015, , 353-361.	0.5	1
108	Design of the Novel Double-ring Dynamical Gravimeter. Journal of Automation, Mobile Robotics and Intelligent Systems, 2015, 9, 47-51.	0.4	5

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109	Design of the Novel Double-ring Dynamical Gravimeter. Journal of Automation, Mobile Robotics and Intelligent Systems, 2015, 9, 47-51.	0.4	4
110	Development of Graphene Based flow Sensor. Journal of Automation, Mobile Robotics and Intelligent Systems, 2015, 9, 55-57.	0.4	1
111	Validation of the An hysteretic Magnetization Model for Soft Magnetic Materials with Perpendicular Anisotropy. Materials, 2014, 7, 5109-5116.	1.3	48
112	Infrared Thermal Emission from Joule-Heated Graphene with Defects. , 2014, , .		2
113	Influence of Stresses on Magnetic B-H Characteristics of X30Cr13 Corrosion Resisting Martensitic Steel. Advances in Intelligent Systems and Computing, 2014, , 607-614.	0.5	4
114	Magnetoelastic Properties of Selected Amorphous Systems Tailored by Thermomagnetic Treatment. Journal of Electrical Engineering, 2014, 65, 259-261.	0.4	14
115	Reliability and Efficiency of Differential Evolution Based Method of Determination of Jiles-Atherton Model Parameters for X30CR13 Corrosion Resisting Martensitic Steel. Journal of Automation, Mobile Robotics and Intelligent Systems, 2014, 8, 63-68.	0.4	18
116	Eddy current tomography for testing of ferromagnetic and non-magnetic materials. Measurement Science and Technology, 2014, 25, 025902.	1.4	11
117	Preisach Based Model for Predicting of Functional Characteristic of Fluxgate Sensors and Inductive Components. Advances in Intelligent Systems and Computing, 2014, , 591-596.	0.5	2
118	Sensitivity and Offset Voltage Testing in the Hall-Effect Sensors Made of Graphene. Advances in Intelligent Systems and Computing, 2014, , 631-640.	0.5	62
119	Piezoceramic Transformer Based Ionization-Deionization System. Advances in Intelligent Systems and Computing, 2014, , 147-153.	0.5	0
120	Influence of Operating Conditions on Functional Properties of High Resolution Analog to Digital Converter. Advances in Intelligent Systems and Computing, 2014, , 697-711.	0.5	0
121	Construction Aspects of Plasma Based Technology for Waste of Electrical and Electronic Equipment (WEEE) Management in Urban Areas. Procedia Engineering, 2013, 57, 1100-1108.	1.2	17
122	Ferromagnetic Objects Magnetovision Detection System. Materials, 2013, 6, 5593-5601.	1.3	14
123	New Method of Measurements of Magnetic Characteristics in Two Perpendicular Axis of Amorphous Ribbon. Solid State Phenomena, 2013, 198, 378-381.	0.3	0
124	Possibilities of Application of Amorphous Fe ₇₇ Cr ₂ B ₁₆ Si ₅ Alloys in Different States of Thermal Relaxation as Magnetic Tensile Force Sensors. Solid State Phenomena, 2013, 198, 388-393.	0.3	1
125	E2LP: A Unified Embedded Engineering Learning Platform. , 2013, , .		14
126	Mathematical and Computer Modelling of the Influence of Stress on Magnetic Characteristics of the Construction Steels. Theoretical and Applied Informatics, 2013, 25, .	0.4	4

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127	Analysis and Computer Modeling of Magnetoelastic Characteristics of FeNi-based Amorphous Ring-shaped Core under Uniform Compressive and Tensile Stresses. Theoretical and Applied Informatics, 2013, 25, .	0.4	4
128	Low Current Transformer Utilizing Co-Based Amorphous Alloys. IEEE Transactions on Magnetics, 2012, 48, 1493-1496.	1.2	23
129	Two-Axis, Miniature Fluxgate Sensors. IEEE Transactions on Magnetics, 2012, 48, 1485-1488.	1.2	23
130	Application of Extended Jiles–Atherton Model for Modeling the Magnetic Characteristics of Fe _{41.5} Co _{41.5} Nb ₃ Cu ₁ B ₁₃ Alloy in As-Quenched and Nanocrystalline State. IEEE Transactions on Magnetics, 2012, 48, 1389-1392.	1.2	11
131	The temperature dependence of the magnetoelastic characteristics of cores for force sensors utilizing Fe ₇₀ Ni ₈ Si ₁₀ B ₁₂ amorphous alloy. Pramana - Journal of Physics, 2008, 71, 591-597.	0.9	2
132	Novel application of the magnetostrictive delay lines for real-time monitoring of the ceramic components. Journal of Magnetism and Magnetic Materials, 2008, 320, e971-e973.	1.0	5
133	Extended Jiles–Atherton model for modelling the magnetic characteristics of isotropic materials. Journal of Magnetism and Magnetic Materials, 2008, 320, e1049-e1052.	1.0	20
134	Extension of the model of the magnetic characteristics of anisotropic metallic glasses. Journal Physics D: Applied Physics, 2007, 40, 4109-4113.	1.3	24
135	Modeling of the influence of the torque on the magnetic properties of amorphous alloys. Journal of Magnetism and Magnetic Materials, 2007, 310, e907-e909.	1.0	0
136	The ring-shaped magnetoelastic torque sensors utilizing soft amorphous magnetic materials. Journal of Magnetism and Magnetic Materials, 2007, 316, e607-e609.	1.0	15
137	Magnetoelastic properties of HITPERM-type Fe _{41.5} Co _{41.5} Cu ₁ Nb ₃ B ₁₃ nanocrystalline alloy. Journal of Magnetism and Magnetic Materials, 2006, 304, e624-e626.	1.0	10
138	The influence of the thermomagnetic heat treatment on magnetoelastic properties of Fe ₄₀ Ni ₃₈ Mo ₄ B ₁₈ alloy in amorphous state. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1117-E1118.	1.0	1
139	Magnetostrictive Properties and Magnetoelastic Villari Effect in the High-permeability Mn-Zn Ferrites. European Physical Journal D, 2004, 54, 169-172.	0.4	13
140	The Influence of Nanocrystallization Process on Magnetoelastic and Structural Properties of Fe _{73.5} Nb ₃ Cu ₁ Si _{16.5-x} B _{6+x} (x=0; 3) Alloys. European Physical Journal D, 2004, 54, 173-176.	0.4	2
141	Application of the energy-based model for the magnetoelastic properties of amorphous alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 728-730.	1.0	6
142	Stress dependence of sensitivity of fluxgate sensor. Sensors and Actuators A: Physical, 2004, 110, 232-235.	2.0	9
143	The possibility of utilizing the high permeability magnetic materials in construction of magnetoelastic stress and force sensors. Sensors and Actuators A: Physical, 2004, 113, 270-276.	2.0	46
144	Influence of thermal treatment on magnetoelastic Villari effect in Fe ₇₈ Si ₁₃ B ₉ amorphous alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1024-1026.	2.6	13

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145	Magnetostrictive properties of Fe ₄₀ Ni ₃₈ Mo ₄ B ₁₈ alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 1137-1139.	2.6	3
146	New method of characterization of magnetoelastic properties of amorphous ring cores. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 67-69.	1.0	11
147	Magnetoelastic Villari effect in high-permeability Mn-Zn ferrites and modeling of this effect. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 284-286.	1.0	21
148	Effects of stress and its dependence on microstructure in Mn-Zn ferrite for power applications. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 547-549.	1.0	17
149	Compressive Stress Dependence of Magnetic Properties of Co ₆₆ Fe ₄ Ni ₁ B ₁₄ Si ₁₅ Alloy. European Physical Journal D, 2002, 52, 183-186.	0.4	6
150	Modeling of Magnetoelastic Materials for Force and Torque Sensors. Solid State Phenomena, 0, 144, 124-129.	0.3	3
151	Differential Magnetoelastic Compressive Force Sensor Utilizing Two Amorphous Alloy Ring Cores. Solid State Phenomena, 0, 154, 23-27.	0.3	0
152	Measurements of Strain in Ceramic Components Using Magnetostrictive Delay Line. Solid State Phenomena, 0, 154, 29-33.	0.3	0
153	Modelling the Magnetic Characteristics and Temperature Influence on Construction Steels. Solid State Phenomena, 0, 199, 466-471.	0.3	4
154	Tensile Stress Sensor with Amorphous Ring Shape Core. Solid State Phenomena, 0, 220-221, 515-519.	0.3	1
155	Application of Magnetovision Scanning System for Detection of Dangerous Objects. Solid State Phenomena, 0, 220-221, 355-360.	0.3	0