

# Paulo Freitas

## List of Publications by Year in descending order

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530  
papers

13,983  
citations

22099

59  
h-index

43802

91  
g-index

535  
all docs

535  
docs citations

535  
times ranked

9070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolithically integrated optical interference and absorption filters on thin film amorphous silicon photosensors for biological detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 356, 131330.	4.0	7
2	A pump-free microfluidic device for fast magnetic labeling of ischemic stroke biomarkers. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2571-2583.	1.9	8
3	Electronic Platforms and Signal Processing for Magnetoresistive-Based Biochips. , 2022, , 1201-1239.		0
4	Detecting Magnetic Ink Barcodes With Handheld Magnetoresistive Sensors. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-4.	1.2	1
5	Monolithic Integration of Multi-Spectral Optical Interference Filter Array on Thin Film Amorphous Silicon Photodiodes. <i>IEEE Sensors Journal</i> , 2022, 22, 5636-5643.	2.4	5
6	Seebeck effect and Joule heating in CoFeB/MgO/CoFeB-based perpendicular magnetic tunnel junctions with low resistance area product. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 265302.	1.3	0
7	A Phage Receptor-Binding Protein as a Promising Tool for the Detection of Escherichia coli in Human Specimens. <i>Frontiers in Microbiology</i> , 2022, 13, .	1.5	8
8	Evolution in Automatized Detection of Cells: Advances in Magnetic Microcytometers for Cancer Cells. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 413-444.	0.8	0
9	Two-dimensional arrays of vertically packed spin-valves with picoTesla sensitivity at room temperature. <i>Scientific Reports</i> , 2021, 11, 215.	1.6	4
10	Optimization of asymmetric reference structures through non-evenly layered synthetic antiferromagnet for full bridge magnetic sensors based on CoFeB/MgO/CoFeB. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	6
11	Phase variation in the locked state of mutually synchronized spin torque nano-oscillators. <i>Applied Physics Letters</i> , 2021, 118, 172406.	1.5	6
12	Bias Voltage Dependence of Sensing Characteristics in Tunneling Magnetoresistance Sensors. <i>Sensors</i> , 2021, 21, 2495.	2.1	2
13	Electrical characterisation of higher order spin wave modes in vortex-based magnetic tunnel junctions. <i>Communications Physics</i> , 2021, 4, .	2.0	6
14	Silane-based coating charged with TiO2 NPs for dental implant applications. <i>Surface and Coatings Technology</i> , 2021, 413, 127066.	2.2	9
15	Rapid and multiplex detection of nosocomial pathogens on a phage-based magnetoresistive lab-on-a-chip platform. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3164-3174.	1.7	20
16	Non-volatile artificial synapse based on a vortex nano-oscillator. <i>Scientific Reports</i> , 2021, 11, 16094.	1.6	11
17	Using integrated current lines to control the operation point of highly sensitive magnetoresistive sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168152.	1.0	1
18	The Challenges of Developing Biosensors for Clinical Assessment: A Review. <i>Chemosensors</i> , 2021, 9, 299.	1.8	18

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19	Multi-Level Switching and Reversible Current Driven Domain-Wall Motion in Single CoFeB/MgO/CoFeB-Based Perpendicular Magnetic Tunnel Junctions. <i>Advanced Electronic Materials</i> , 2021, 7, 2000976.	2.6	6
20	Spintronic Sensors Based on Magnetic Tunnel Junctions for Wireless Eye Movement Gesture Control. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 1299-1310.	2.7	21
21	Integrated Pico-Tesla Resolution Magnetoresistive Sensors for Miniaturised Magnetomyography. , 2020, 2020, 3415-3419.		8
22	Point-of-care quantification of serum cellular fibronectin levels for stratification of ischemic stroke patients. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 30, 102287.	1.7	11
23	Phenotypic Analysis of Urothelial Exfoliated Cells in Bladder Cancer via Microfluidic Immunoassays: Sialyl-Tn as a Novel Biomarker in Liquid Biopsies. <i>Frontiers in Oncology</i> , 2020, 10, 1774.	1.3	8
24	Non-invasive molecular assessment of human embryo development and implantation potential. <i>Biosensors and Bioelectronics</i> , 2020, 157, 112144.	5.3	8
25	Effects of magnetic monopoles charge on the cracking reversal processes in artificial square ices. <i>Scientific Reports</i> , 2020, 10, 9959.	1.6	7
26	Digital and analogue modulation and demodulation scheme using vortex-based spin torque nano-oscillators. <i>Scientific Reports</i> , 2020, 10, 11181.	1.6	12
27	Wideband High-Resolution Frequency-to-Resistance Converter Based on Nonhomogeneous Magnetic-State Transitions. <i>Physical Review Applied</i> , 2020, 13, .	1.5	8
28	Portable sensing system based on electrochemical impedance spectroscopy for the simultaneous quantification of free and total microcystin-LR in freshwaters. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111550.	5.3	26
29	Biosensors for On-Farm Diagnosis of Mastitis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 186.	2.0	67
30	Magnetodynamics in orthogonal nanocontact spin-torque nano-oscillators based on magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	11
31	Nanoscale true random bit generator based on magnetic state transitions in magnetic tunnel junctions. <i>Scientific Reports</i> , 2019, 9, 15661.	1.6	13
32	Manipulation of Magnetic Beads with Thin Film Microelectromagnet Traps. <i>Micromachines</i> , 2019, 10, 607.	1.4	6
33	Hybrid Rigid-Flexible Magnetoresistive Device Based on a Wafer Level Packaging Technology for Micrometric Proximity Measurements. <i>IEEE Sensors Journal</i> , 2019, 19, 12363-12368.	2.4	5
34	Magneto-mechanical actuation of magnetic responsive fibrous scaffolds boosts tenogenesis of human adipose stem cells. <i>Nanoscale</i> , 2019, 11, 18255-18271.	2.8	68
35	Effectiveness and Safety of a Nontargeted Boost for a CXCR4-Targeted Magnetic Hyperthermia Treatment of Cancer Cells. <i>ACS Omega</i> , 2019, 4, 1931-1940.	1.6	10
36	The annealing effect on memory state stability and interlayer coupling in perpendicular magnetic tunnel junctions with ultrathin MgO barrier. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 142-146.	1.0	6

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37	Fast and efficient microfluidic cell filter for isolation of circulating tumor cells from unprocessed whole blood of colorectal cancer patients. <i>Scientific Reports</i> , 2019, 9, 8032.	1.6	73
38	Tuning magnetic monopole population and mobility in unidirectional array of nanomagnets as a function of lattice parameters. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	7
39	Spin torque nano-oscillator driven by combined spin injection from tunneling and spin Hall current. <i>Communications Physics</i> , 2019, 2, .	2.0	38
40	Electrochemical Immunosensor for TNF $\alpha$ -Mediated Inflammatory Disease Screening. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2676-2682.	1.7	19
41	Optimization of the Gap Size of Flux Concentrators: Pushing Further on Low Noise Levels and High Sensitivities in Spin-Valve Sensors. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-5.	1.2	3
42	Assessment of conduction mechanisms through MgO ultrathin barriers in CoFeB/MgO/CoFeB perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	11
43	Functionalization of single-layer graphene for immunoassays. <i>Applied Surface Science</i> , 2019, 480, 709-716.	3.1	29
44	Magnetoresistive Sensor Development Roadmap (Non-Recording Applications). <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-30.	1.2	138
45	Reconfigurable Spintronics Wheatstone Bridge Sensors With Offset Voltage Compensation at Wafer Level. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-5.	1.2	6
46	Go with the flow: advances and trends in magnetic flow cytometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1839-1862.	1.9	24
47	High-Resolution Nondestructive Test Probes Based on Magnetoresistive Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 7326-7337.	5.2	35
48	Impact of blocking temperature distribution on the thermal behavior of MnIr and MnPt magnetoresistive stacks. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 68-73.	1.0	5
49	Exploring sialyl-Tn expression in microfluidic-isolated circulating tumour cells: A novel biomarker and an analytical tool for precision oncology applications. <i>New Biotechnology</i> , 2019, 49, 77-87.	2.4	31
50	Combining CXCR4-targeted and nontargeted nanoparticles for effective unassisted in vitro magnetic hyperthermia. <i>Biointerphases</i> , 2018, 13, 011005.	0.6	9
51	Engineering magnetically responsive tropoelastin spongy-like hydrogels for soft tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1066-1075.	2.9	13
52	MnNi-based spin valve sensors combining high thermal stability, small footprint and pTesla detectivities. <i>AIP Advances</i> , 2018, 8, .	0.6	3
53	Barrier breakdown mechanism in nano-scale perpendicular magnetic tunnel junctions with ultrathin MgO barrier. <i>AIP Advances</i> , 2018, 8, .	0.6	12
54	Multifunctional magnetic-responsive hydrogels to engineer tendon-to-bone interface. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2375-2385.	1.7	65

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55	Detection of BCG bacteria using a magnetoresistive biosensor: A step towards a fully electronic platform for tuberculosis point-of-care detection. <i>Biosensors and Bioelectronics</i> , 2018, 100, 259-265.	5.3	50
56	Spin transfer torque driven higher-order propagating spin waves in nano-contact magnetic tunnel junctions. <i>Nature Communications</i> , 2018, 9, 4374.	5.8	43
57	3D Magnetic Field Reconstruction Methodology Based on a Scanning Magnetoresistive Probe. <i>Sensors</i> , 2018, 18, 2049.	2.1	3
58	Reading magnetic ink patterns with magnetoresistive sensors. <i>AIP Advances</i> , 2018, 8, .	0.6	4
59	Broadband voltage rectifier induced by linear bias dependence in CoFeB/MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	28
60	Enhanced magnetic microcytometer with 3D flow focusing for cell enumeration. <i>Lab on A Chip</i> , 2018, 18, 2593-2603.	3.1	12
61	Hybrid GMR Sensor Detecting 950 pT/sqrt(Hz) at 1 Hz and Room Temperature. <i>Sensors</i> , 2018, 18, 790.	2.1	29
62	Influence of MgO Tunnel Barrier Thickness on the Output Power of Three-Terminal Spin Hall Nano-Oscillators. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	1.2	4
63	Custom Magnet Design for a Multi-Channel Magnetic Microcytometer. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	1.2	6
64	Rapid and specific detection of cell-derived microvesicles using a magnetoresistive biochip. <i>Analyst</i> , 2017, 142, 979-986.	1.7	10
65	Optimization of the buffer surface of CoFeB/MgO/CoFeB-based magnetic tunnel junctions by ion beam milling. <i>Applied Surface Science</i> , 2017, 424, 58-62.	3.1	11
66	Annealing free magnetic tunnel junction sensors. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 165001.	1.3	11
67	Magnetic tunnel junctions with integrated thermometers for magnetothermopower measurements. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 185303.	0.7	16
68	Bipolar resistive switching in Si/Ag nanostructures. <i>Applied Surface Science</i> , 2017, 424, 122-126.	3.1	14
69	Quantitative histochemistry for macrophage biodistribution on mice liver and spleen after the administration of a pharmacological-relevant dose of polyacrylic acid-coated iron oxide nanoparticles. <i>Nanotoxicology</i> , 2017, 11, 256-266.	1.6	15
70	Microneedles with integrated magnetoresistive sensors: A precision tool in biomedical instrumentation. , 2017, , .		5
71	On-Chip Magnetic Nanoparticle Manipulation and Trapping for Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	1.2	13
72	Novel fluorescence-based POCT platform for therapeutic drug monitoring in transplanted patients (Conference Presentation). , 2017, , .		0

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73	Improved Efficiency of Tapered Magnetic Flux Concentrators With Double-Layer Architecture. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	19
74	Voltage-polarity dependent multi-mode resistive switching on sputtered MgO nanostructures. Physical Chemistry Chemical Physics, 2017, 19, 10898-10904.	1.3	18
75	Challenges and trends in magnetic sensor integration with microfluidics for biomedical applications. Journal Physics D: Applied Physics, 2017, 50, 213001.	1.3	81
76	Toward pTesla Detectivities Maintaining Minimum Sensor Footprint With Vertical Packaging of Spin Valves. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	0
77	Semi-quantitative method for Staphylococci magnetic detection in raw milk. Journal of Dairy Research, 2017, 84, 80-88.	0.7	12
78	Advanced NDT Inspection Tools for Titanium Surfaces Based on High-Performance Magnetoresistive Sensors. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	19
79	Lab-on-Chip Devices: Gaining Ground Losing Size. ACS Nano, 2017, 11, 10659-10664.	7.3	49
80	InÂVivo Magnetic Recording of Neuronal Activity. Neuron, 2017, 95, 1283-1291.e4.	3.8	48
81	One-step trapping of droplets and surface functionalization of sensors using gold-patterned structures for multiplexing in biochips. RSC Advances, 2017, 7, 43273-43282.	1.7	2
82	A CMOS Front-End With Integrated Magnetoresistive Sensors for Biomolecular Recognition Detection Applications. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 988-1000.	2.7	21
83	An Interplay between Matrix Anisotropy and Actomyosin Contractility Regulates 3Dâ€Directed Cell Migration. Advanced Functional Materials, 2017, 27, 1702322.	7.8	22
84	High power and low critical current density spin transfer torque nano-oscillators using MgO barriers with intermediate thickness. Scientific Reports, 2017, 7, 7237.	1.6	35
85	Novel magnetic readout for hybrid spintronic MEMS devices. , 2017, , .		0
86	A tunnel magnetoresistive effect wattmeters-based wireless sensors network. Sensors and Actuators A: Physical, 2017, 264, 224-233.	2.0	1
87	Effect of CoFeB electrode compositions on low frequency magnetic noise in tunneling magnetoresistance sensors. Journal of Applied Physics, 2017, 122, 213906.	1.1	3
88	Thermal FMR Spectral Characterization of Very Low RA In-Plane MgO Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	1
89	Influence of the thermal interface resistance on the thermovoltage of a magnetic tunnel junction. Physical Review B, 2017, 95, .	1.1	27
90	Flexible Magnetoresistive Sensors Designed for Conformal Integration. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	12

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91	Numerical Evaluation of Bacterial Cell Concentration by Magnetoresistive Cytometry. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	2
92	Towards high-resolution scanning magnetoresistance microscopy. , 2017, , .		0
93	Electronic Energy Meter Based on a Tunnel Magnetoresistive Effect (TMR) Current Sensor. Materials, 2017, 10, 1134.	1.3	23
94	Unipolar Nonvolatile Resistive Switching in Pt/MgO/Ta/Ru Structures Deposited by Magnetron Sputtering. Journal of Nanoscience and Nanotechnology, 2017, 17, 564-567.	0.9	8
95	Electronic Platforms and Signal Processing for Magnetoresistive-Based Biochips. , 2017, , 1-39.		0
96	Hybrid Integration of Magnetoresistive Sensors with MEMS as a Strategy to Detect Ultra-Low Magnetic Fields. Micromachines, 2016, 7, 88.	1.4	34
97	Ru-Based Thin Film Temperature Sensor for Space Environments: Microfabrication and Characterization under Total Ionizing Dose. Journal of Sensors, 2016, 2016, 1-5.	0.6	3
98	Semi-Quantitative Method for Streptococci Magnetic Detection in Raw Milk. Biosensors, 2016, 6, 19.	2.3	34
99	Integration of GMR Sensors with Different Technologies. Sensors, 2016, 16, 939.	2.1	70
100	Sensitivity and 3 dB Bandwidth in Single and Series-Connected Tunneling Magnetoresistive Sensors. Sensors, 2016, 16, 1821.	2.1	5
101	Biodistribution of polyacrylic acid-coated iron oxide nanoparticles is associated with proinflammatory activation and liver toxicity. Journal of Applied Toxicology, 2016, 36, 1321-1331.	1.4	29
102	Exploring the Potential of Starch/Polycaprolactone Aligned Magnetic Responsive Scaffolds for Tendon Regeneration. Advanced Healthcare Materials, 2016, 5, 213-222.	3.9	50
103	Enhancing the injection locking range of spin torque oscillators through mutual coupling. Applied Physics Letters, 2016, 109, .	1.5	8
104	Performance enhanced UV/vis spectroscopic microfluidic sensor for ascorbic acid quantification in human blood. Biosensors and Bioelectronics, 2016, 85, 568-572.	5.3	42
105	AlOx barrier growth in magnetic tunnel junctions for sensor applications. Journal of Magnetism and Magnetic Materials, 2016, 412, 181-184.	1.0	10
106	Design and optimization of a CMOS front-end for magnetoresistive sensor based biomolecular recognition detection. , 2016, , .		1
107	High immunity wafer-level measurement of MHz current. Measurement: Journal of the International Measurement Confederation, 2016, 94, 474-479.	2.5	2
108	Tunneling magnetoresistance sensors for high fidelity current waveforms monitoring. Sensors and Actuators A: Physical, 2016, 251, 142-147.	2.0	11

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109	Spintronic Sensors. Proceedings of the IEEE, 2016, 104, 1894-1918.	16.4	103
110	Graphene field-effect transistor array with integrated electrolytic gates scaled to 200 nm. Journal of Physics Condensed Matter, 2016, 28, 085302.	0.7	40
111	Magnetoresistive nanosensors: controlling magnetism at the nanoscale. Nanotechnology, 2016, 27, 045501.	1.3	20
112	Implementing a strategy for on-chip detection of cell-free DNA fragments using GMR sensors: A translational application in cancer diagnostics using ALU elements. Analytical Methods, 2016, 8, 119-128.	1.3	41
113	Linearization of Magnetic Sensors With a Weakly Pinned Free-Layer MTJ Stack Using a Three-Step Annealing Process. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	29
114	Femtosecond control of electric currents in metallic ferromagnetic heterostructures. Nature Nanotechnology, 2016, 11, 455-458.	15.6	182
115	Interference-blind microfluidic sensor for ascorbic acid determination by UV/vis spectroscopy. Sensors and Actuators B: Chemical, 2016, 224, 668-675.	4.0	35
116	Integration of magnetoresistive sensors with atomic force microscopy cantilevers for scanning magnetoresistance microscopy applications. , 2015, , .		1
117	2. New techniques in environment monitoring. , 2015, , 35-98.		0
118	Linearization strategies for high sensitivity magnetoresistive sensors. EPJ Applied Physics, 2015, 72, 10601.	0.3	83
119	Note: A non-invasive electronic measurement technique to measure the embedded four resistive elements in a Wheatstone bridge sensor. Review of Scientific Instruments, 2015, 86, 066109.	0.6	1
120	Ultra-Compact 100 Å– 100 μm <sup>2</sup> Footprint Hybrid Device with Spin-Valve Nanosensors. Sensors, 2015, 15, 30311-30318.	2.1	12
121	Magnetic Counter for Group B Streptococci Detection in Milk. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	9
122	Terahertz Response and Ultrafast Laser-Induced Dynamics of Spins and Charges in CoFe/Al <sub>2</sub> O <sub>3</sub> Multilayers. Springer Proceedings in Physics, 2015, , 261-263.	0.1	0
123	Detecting Antibody-Labeled BCG MNPs Using a Magnetoresistive Biosensor and Magnetic Labeling Technique. Journal of Nano Research, 2015, 35, 92-103.	0.8	1
124	Impact of MgO Thickness on the Performance of Spin-Transfer Torque Nano-Oscillators. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	4
125	Strategies for pTesla Field Detection Using Magnetoresistive Sensors With a Soft Pinned Sensing Layer. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	30
126	Total ionizing dose (TID) evaluation of magnetic tunnel junction (MTJ) current sensors. Sensors and Actuators A: Physical, 2015, 225, 119-127.	2.0	9



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127	Polyacrylic acid coated and non-coated iron oxide nanoparticles are not genotoxic to human T lymphocytes. <i>Toxicology Letters</i> , 2015, 234, 67-73.	0.4	27
128	Terahertz dynamics of spins and charges in CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Physical Review B</i> , 2015, 91, .	1.1	10
129	Real-Time Monitoring of Magnetic Nanoparticles Diffusion in Lateral Flow Microporous Membrane Using Spin Valve Sensors. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	6
130	Polyacrylic acid-coated and non-coated iron oxide nanoparticles induce cytokine activation in human blood cells through TAK1, p38 MAPK and JNK pro-inflammatory pathways. <i>Archives of Toxicology</i> , 2015, 89, 1759-1769.	1.9	23
131	Technological advances in bovine mastitis diagnosis. <i>Journal of Veterinary Diagnostic Investigation</i> , 2015, 27, 665-672.	0.5	64
132	Design, fabrication and test of an integrated multi-microchannel heat sink for electronics cooling. <i>Sensors and Actuators A: Physical</i> , 2015, 235, 14-27.	2.0	22
133	Bending Effect on Magnetoresistive Silicon Probes. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	6
134	Integration of Magnetoresistive Sensors With Atomic Force Microscopy Cantilevers for Scanning Magnetoresistance Microscopy Applications. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	4
135	Magneto-transport behavior of double exchange magnetic tunnel junction sensors. , 2014, , .		1
136	Magnetic tunnel junction based eddy current testing probe for detection of surface defects. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	21
137	Lab-on-Chip Cytometry Based on Magnetoresistive Sensors for Bacteria Detection in Milk. <i>Sensors</i> , 2014, 14, 15496-15524.	2.1	59
138	MgO-based magnetic tunnel junction sensors array for non-destructive testing applications. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	34
139	An in-depth noise model for giant magnetoresistance current sensors for circuit design and complementary metal-oxide-semiconductor integration. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	3
140	Observation of spin-dependent quantum well resonant tunneling in textured CoFeB layers. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	7
141	Spin Valve Devices With Synthetic-Ferrimagnet Free-Layer Displaying Enhanced Sensitivity for Nanometric Sensors. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	14
142	Reduction of low frequency magnetic noise by voltage-induced magnetic anisotropy modulation in tunneling magnetoresistance sensors. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	19
143	Nanoscale Magnetic Tunnel Junction Sensing Devices With Soft Pinned Sensing Layer and Low Aspect Ratio. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-8.	1.2	15
144	Improved Magnetic Tunnel Junctions Design for the Detection of Superficial Defects by Eddy Currents Testing. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	18

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145	Customized Design of Magnetic Beads for Dynamic Magnetoresistive Cytometry. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	11
146	Dynamical Detection of Magnetic Nanoparticles in Paper Microfluidics With Spin Valve Sensors for Point-of-Care Applications. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	17
147	Micromagnetic and magneto-transport simulations of nanodevices based on MgO tunnel junctions for memory and sensing applications. Physica B: Condensed Matter, 2014, 435, 163-167.	1.3	8
148	Magnetic tunnel junction sensors with pTesla sensitivity. Microsystem Technologies, 2014, 20, 793-802.	1.2	66
149	A Neuronal Signal Detector for Biologically Generated Magnetic Fields. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1171-1180.	2.4	20
150	Eddy currents testing probe with magneto-resistive sensors and differential measurement. Sensors and Actuators A: Physical, 2014, 212, 58-67.	2.0	33
151	Interaction of polyacrylic acid coated and non-coated iron oxide nanoparticles with human neutrophils. Toxicology Letters, 2014, 225, 57-65.	0.4	55
152	Ordered arrays of tilted silicon nanobelts with enhanced solar hydrogen evolution performance. Nanoscale, 2014, 6, 2097.	2.8	8
153	Room temperature direct detection of low frequency magnetic fields in the 100 pT/Hz0.5 range using large arrays of magnetic tunnel junctions. Journal of Applied Physics, 2014, 115, .	1.1	39
154	Effect of annealing temperature on formation of superparamagnetism in CoFeB/MgO/CoFeB magnetic tunnel junctions. Applied Surface Science, 2014, 314, 443-446.	3.1	11
155	Dynamic exchange via spin currents in acoustic and optical modes of ferromagnetic resonance in spin-valve structures. Physical Review B, 2014, 89, .	1.1	18
156	A bacteriophage detection tool for viability assessment of Salmonella cells. Biosensors and Bioelectronics, 2014, 52, 239-246.	5.3	87
157	Monolithic integration of Giant Magnetoresistance (GMR) devices onto standard processed CMOS dies. Microelectronics Journal, 2014, 45, 702-707.	1.1	18
158	Linear nanometric tunnel junction sensors with exchange pinned sensing layer. Journal of Applied Physics, 2014, 115, .	1.1	16
159	Quasi-digital front-ends for current measurement in integrated circuits with giant magnetoresistance technology. IET Circuits, Devices and Systems, 2014, 8, 291-300.	0.9	13
160	Resonant and non-resonant microwave absorption as a probe of the magnetic dynamics and switching in spin valves. Journal of Applied Physics, 2013, 114, 023906.	1.1	2
161	CMOS instrumentation system for matrix-based magnetoresistive biosensors. , 2013, , .		2
162	Measuring brain activity with magnetoresistive sensors integrated in micromachined probe needles. Applied Physics A: Materials Science and Processing, 2013, 111, 407-412.	1.1	20

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163	Integration of TMR Sensors in Silicon Microneedles for Magnetic Measurements of Neurons. IEEE Transactions on Magnetics, 2013, 49, 3512-3515.	1.2	35
164	MgO Magnetic Tunnel Junction Electrical Current Sensor With Integrated Ru Thermal Sensor. IEEE Transactions on Magnetics, 2013, 49, 3866-3869.	1.2	13
165	Switching Field Variation in MgO Magnetic Tunnel Junction Nanopillars: Experimental Results and Micromagnetic Simulations. IEEE Transactions on Magnetics, 2013, 49, 4405-4408.	1.2	13
166	Magnetic field sensing characteristics of MgO based tunneling magnetoresistance devices with Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> and Co <sub>60</sub> Fe <sub>20</sub> B <sub>20</sub> electrodes. Sensors and Actuators A: Physical, 2013, 202, 64-68.	2.0	26
167	NiFe/CoFe/Cu/CoFe/MnIr spin valves studied by ferromagnetic resonance. Journal of Applied Physics, 2013, 113, 17D713.	1.1	6
168	Giant intrinsic thermomagnetic effects in thin MgO magnetic tunnel junctions. Applied Physics Letters, 2013, 102, 212413.	1.5	21
169	Magnetic Tunnel Junction (MTJ) sensors for integrated circuits (IC) electric current measurement. , 2013, , .		5
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