

Susana Cardoso de Freitas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

450
papers

10,318
citations

51
h-index

77
g-index

475
ext. papers

11,397
ext. citations

3.4
avg, IF

6.15
L-index

#	Paper	IF	Citations
450	Detecting Magnetic Ink Barcodes with Handheld Magnetoresistive Sensors. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
449	Monolithic integration of multi-spectral optical interference filter array on thin film amorphous silicon photodiodes. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
448	Europium-Implanted AlN Nanowires for Red Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2022 ,	5.6	1
447	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	8.5	1
446	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	3	
445	Combined detection of molecular and serological signatures of viral infections: The dual assay concept.. <i>Biosensors and Bioelectronics</i> , 2022 , 210, 114302	11.8	1
444	On-site magnetic screening tool for rapid detection of hospital bacterial infections: Clinical study with <i>Klebsiella pneumoniae</i> cells. <i>Biosensors and Bioelectronics: X</i> , 2022 , 11, 100149	2.9	
443	Evolution in Automatized Detection of Cells: Advances in Magnetic Microcytometers for Cancer Cells. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 413-444	3.6	
442	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	6.4	3
441	Bias Voltage Dependence of Sensing Characteristics in Tunneling Magnetoresistance Sensors. <i>Sensors</i> , 2021 , 21,	3.8	2
440	Self-powered proton detectors based on GaN core-shell p-n microwires. <i>Applied Physics Letters</i> , 2021 , 118, 193501	3.4	1
439	Effect of albumin, urea, lysozyme and mucin on the triboactivity of Ti6Al4V/zirconia pair used in dental implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 118, 104451	4.1	2
438	Rapid and multiplex detection of nosocomial pathogens on a phage-based magnetoresistive lab-on-chip platform. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 3164-3174	4.9	4
437	Diabetes-Alzheimer's Disease Link: Targeting Mitochondrial Dysfunction and Redox Imbalance. <i>Antioxidants and Redox Signaling</i> , 2021 , 34, 631-649	8.4	10
436	Lab-on-a-chip: Systems integration at the microscale 2021 , 63-87		1
435	Introduction to microfabrication techniques for microfluidics devices 2021 , 19-30		1
434	Two-dimensional arrays of vertically packed spin-valves with picoTesla sensitivity at room temperature. <i>Scientific Reports</i> , 2021 , 11, 215	4.9	2

433	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, 072401	3.4	2
432	IGF1R Deficiency Modulates Brain Signaling Pathways and Disturbs Mitochondria and Redox Homeostasis. <i>Biomedicines</i> , 2021 , 9,	4.8	2
431	Smart fingertip sensor for food quality control: Fruit maturity assessment with a magnetic device. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 536, 168116	2.8	1
430	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	2.8	
429	Bringing flexibility to giant magnetoresistive sensors directly grown onto commercial polymeric foils. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 538, 168153	2.8	
428	Multiple Bacteria Identification in the Point-of-Care: an Old Method Serving a New Approach. <i>Sensors</i> , 2020 , 20,	3.8	3
427	Simplified Process for the Monolithic Integration of Tunnel Magnetoresistive Sensors in a Two-Dimensional Magnetometer. <i>IEEE Magnetics Letters</i> , 2020 , 11, 1-5	1.6	2
426	Wideband High-Resolution Frequency-to-Resistance Converter Based on Nonhomogeneous Magnetic-State Transitions. <i>Physical Review Applied</i> , 2020 , 13,	4.3	4
425	Experimental testing for metrological traceability and accuracy of liquid microflows and microfluidics. <i>Flow Measurement and Instrumentation</i> , 2020 , 71, 101691	2.2	7
424	Reading thin film permanent magnet irregular patterns using magnetoresistive sensors. <i>Sensors and Actuators A: Physical</i> , 2020 , 303, 111673	3.9	2
423	Resistive switching of silicon-silver thin film devices in flexible substrates. <i>Nanotechnology</i> , 2020 , 31, 135702	3.4	3
422	Estimating the uncertainties of strain and damage analysis by X-ray diffraction in ion implanted MoO ₃ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 478, 290-296	1.2	
421	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	6	7
420	Spine Cop: Posture Correction Monitor and Assistant. <i>Sensors</i> , 2020 , 20,	3.8	2
419	Antidiabetic drugs for Alzheimer's and Parkinson's diseases: Repurposing insulin, metformin, and thiazolidinediones. <i>International Review of Neurobiology</i> , 2020 , 155, 37-64	4.4	10
418	Ion beam induced current analysis in GaN microwires. <i>EPJ Web of Conferences</i> , 2020 , 233, 05001	0.3	1
417	Highly sensitive bio-inspired sensor for fine surface exploration and characterization 2020 ,		4
416	A four-state magnetic tunnel junction switchable with spin-orbit torques. <i>Applied Physics Letters</i> , 2020 , 117, 072404	3.4	2

415	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	4	3
414	Eddy Current Tunneling Magneto-Resistive Sensor for Micromotion Detection of a Tibial Orthopaedic Implant. <i>IEEE Sensors Journal</i> , 2019 , 19, 1285-1292	4	8
413	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	2.8	4
412	Dark matters: black-PDMS nanocomposite for opaque microfluidic systems. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2719-2726	3.6	3
411	Towards a portable magnetoresistive biochip for urease-based biocementation monitoring* 2019 ,		3
410	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	2	1
409	Assessment of conduction mechanisms through MgO ultrathin barriers in CoFeB/MgO/CoFeB perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2019 , 114, 102402	3.4	8
408	Functionalization of single-layer graphene for immunoassays. <i>Applied Surface Science</i> , 2019 , 480, 709-716.7		21
407	. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-30	2	75
406	Surface wettability and stability of chemically modified silicon, glass and polymeric surfaces via room temperature chemical vapor deposition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 570, 210-217	5.1	11
405	Reconfigurable Spintronics Wheatstone Bridge Sensors With Offset Voltage Compensation at Wafer Level. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	4
404	Biosensors for On-Farm Diagnosis of Mastitis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 186	5.8	31
403	Nanoscale true random bit generator based on magnetic state transitions in magnetic tunnel junctions. <i>Scientific Reports</i> , 2019 , 9, 15661	4.9	8
402	Manipulation of Magnetic Beads with Thin Film Microelectromagnet Traps. <i>Micromachines</i> , 2019 , 10,	3.3	3
401	Go with the flow: advances and trends in magnetic flow cytometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1839-1862	4.4	15
400	Magnetoresistive Detection of Clinical Biomarker for Monitoring of Colorectal Cancer. <i>IEEE Magnetics Letters</i> , 2019 , 10, 1-5	1.6	5
399	Automatic System to Count and Classify Bacteria Based on Magnetic Cytometry. <i>IEEE Magnetics Letters</i> , 2019 , 10, 1-5	1.6	1
398	High-Resolution Nondestructive Test Probes Based on Magnetoresistive Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7326-7337	8.9	23

397	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	2.8	2
396	Towards an on-chip optical microsystem for spectroscopic detection of gastrointestinal dysplasia. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 751-756	8.5	
395	Diabesity and brain disturbances: A metabolic perspective. <i>Molecular Aspects of Medicine</i> , 2019 , 66, 71-79	6.7	13
394	Brain GLP-1/IGF-1 Signaling and Autophagy Mediate Exendin-4 Protection Against Apoptosis in Type 2 Diabetic Rats. <i>Molecular Neurobiology</i> , 2018 , 55, 4030-4050	6.2	42
393	Graphene immunosensors for okadaic acid detection in seawater. <i>Microchemical Journal</i> , 2018 , 138, 465-471	4.81	17
392	MnNi-based spin valve sensors combining high thermal stability, small footprint and pTesla detectivities. <i>AIP Advances</i> , 2018 , 8, 056644	1.5	2
391	Spin orbit torques induced magnetization reversal through asymmetric domain wall propagation in Ta/CoFeB/MgO structures. <i>Scientific Reports</i> , 2018 , 8, 1355	4.9	34
390	Barrier breakdown mechanism in nano-scale perpendicular magnetic tunnel junctions with ultrathin MgO barrier. <i>AIP Advances</i> , 2018 , 8, 055908	1.5	7
389	Tailoring the cap morphology of electrodeposited gold micro-mushrooms. <i>Applied Surface Science</i> , 2018 , 445, 512-518	6.7	6
388	Multilevel process on large area wafers for nanoscale devices. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 222-229	5	5
387	Highly efficient DNA extraction and purification from olive oil on a washable and reusable miniaturized device. <i>Analytica Chimica Acta</i> , 2018 , 1020, 30-40	6.6	11
386	Radiation sensors based on GaN microwires. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 175105	3	6
385	Uncoupling Protein 2 Inhibition Exacerbates Glucose Fluctuation-Mediated Neuronal Effects. <i>Neurotoxicity Research</i> , 2018 , 33, 388-401	4.3	8
384	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	11.8	36
383	Broadband voltage rectifier induced by linear bias dependence in CoFeB/MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2018 , 112, 252401	3.4	15
382	Enhanced magnetic microcytometer with 3D flow focusing for cell enumeration. <i>Lab on A Chip</i> , 2018 , 18, 2593-2603	7.2	7
381	Hybrid GMR Sensor Detecting 950 pT/sqrt(Hz) at 1 Hz and Room Temperature. <i>Sensors</i> , 2018 , 18,	3.8	21
380	Strategy for Determining a Magnet Position in a 2-D Space Using 1-D Sensors. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	3

379	. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	4
378	Microfabrication Techniques for Microfluidic Devices 2018 , 25-51		8
377	All-spinel oxide Josephson junctions for high-efficiency spin filtering. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 015804	1.8	5
376	360° domain walls in magnetic thin films with uniaxial and random anisotropy. <i>Physical Review B</i> , 2018 , 98,	3.3	5
375	Spin transfer torque driven higher-order propagating spin waves in nano-contact magnetic tunnel junctions. <i>Nature Communications</i> , 2018 , 9, 4374	17.4	32
374	3D Magnetic Field Reconstruction Methodology Based on a Scanning Magnetoresistive Probe. <i>Sensors</i> , 2018 , 18,	3.8	2
373	Reading magnetic ink patterns with magnetoresistive sensors. <i>AIP Advances</i> , 2018 , 8, 056633	1.5	4
372	Mitochondria as a target for neuroprotection: implications for Alzheimer's disease. <i>Expert Review of Neurotherapeutics</i> , 2017 , 17, 77-91	4.3	23
371	Bioinspired Ciliary Force Sensor for Robotic Platforms. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 971-976	4.2	21
370	Rapid and specific detection of cell-derived microvesicles using a magnetoresistive biochip. <i>Analyst, The</i> , 2017 , 142, 979-986	5	10
369	Annealing free magnetic tunnel junction sensors. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 165001	3	9
368	Bipolar resistive switching in Si/Ag nanostructures. <i>Applied Surface Science</i> , 2017 , 424, 122-126	6.7	10
367	Microneedles with integrated magnetoresistive sensors: A precision tool in biomedical instrumentation 2017 ,		1
366	On-Chip Magnetic Nanoparticle Manipulation and Trapping for Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	9
365	Carbon nanotube field effect transistor biosensor for the detection of toxins in seawater. <i>International Journal of Environmental Analytical Chemistry</i> , 2017 , 97, 597-605	1.8	16
364	Silicon Carbide and Magnetoresistive Technologies for Solid State Power Controllers. <i>E3S Web of Conferences</i> , 2017 , 16, 12004	0.5	
363	Improved Efficiency of Tapered Magnetic Flux Concentrators With Double-Layer Architecture. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	13
362	A Miniaturized Force Sensor Based on Hair-Like Flexible Magnetized Cylinders Deposited Over a Giant Magnetoresistive Sensor. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	5

361	Spintronic Biochips 2017 , 165-200		2
360	Voltage-polarity dependent multi-mode resistive switching on sputtered MgO nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10898-10904	3.6	10
359	Microfabricated sol-gel relative humidity sensors for soil suction measurement during laboratory tests. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1176-1183	3.2	3
358	Challenges and trends in magnetic sensor integration with microfluidics for biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 213001	3	62
357	Toward pTesla Detectivities Maintaining Minimum Sensor Footprint With Vertical Packaging of Spin Valves. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	
356	Semi-quantitative method for Staphylococci magnetic detection in raw milk. <i>Journal of Dairy Research</i> , 2017 , 84, 80-88	1.6	7
355	. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	13
354	Lab-on-Chip Devices: Gaining Ground Losing Size. <i>ACS Nano</i> , 2017 , 11, 10659-10664	16.7	38
353	Unipolar Nonvolatile Resistive Switching in Pt/MgO/Ta/Ru Structures Deposited by Magnetron Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 564-67	1.3	5
352	In Vivo Magnetic Recording of Neuronal Activity. <i>Neuron</i> , 2017 , 95, 1283-1291.e4	13.9	31
351	One-step trapping of droplets and surface functionalization of sensors using gold-patterned structures for multiplexing in biochips. <i>RSC Advances</i> , 2017 , 7, 43273-43282	3.7	2
350	A CMOS Front-End With Integrated Magnetoresistive Sensors for Biomolecular Recognition Detection Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 988-1000	5.1	18
349	Enhancement of spin-orbit torques in Ta/Co ₂₀ Fe ₆₀ B ₂₀ /MgO structures induced by annealing. <i>AIP Advances</i> , 2017 , 7, 075305	1.5	5
348	2017 ,		40
347	A tunnel magnetoresistive effect wattmeters-based wireless sensors network. <i>Sensors and Actuators A: Physical</i> , 2017 , 264, 224-233	3.9	1
346	Effect of CoFeB electrode compositions on low frequency magnetic noise in tunneling magnetoresistance sensors. <i>Journal of Applied Physics</i> , 2017 , 122, 213906	2.5	3
345	Thermal FMR Spectral Characterization of Very Low RA In-Plane MgO Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	0
344	Monolithic integration of GMR sensors for standard CMOS-IC current sensing. <i>Solid-State Electronics</i> , 2017 , 135, 100-104	1.7	11

343	Microfluidic platform with integrated GMR sensors for quantification of cancer cells. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 438-445	8.5	20
342	Flexible Magnetoresistive Sensors Designed for Conformal Integration. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	4
341	Numerical Evaluation of Bacterial Cell Concentration by Magnetoresistive Cytometry. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
340	Electronic Energy Meter Based on a Tunnel Magnetoresistive Effect (TMR) Current Sensor. <i>Materials</i> , 2017 , 10,	3.5	9
339	Spintronic Sensors. <i>Proceedings of the IEEE</i> , 2016 , 104, 1894-1918	14.3	69
338	Magnetic Microfluidic Biosensor for the Detection and Quantification of Biomolecules 2016 ,		1
337	Magnetic Tactile Sensor for Braille Reading. <i>IEEE Sensors Journal</i> , 2016 , 16, 8700-8705	4	33
336	Magnetoresistive nanosensors: controlling magnetism at the nanoscale. <i>Nanotechnology</i> , 2016 , 27, 045504	3.1	15
335	Implementing a strategy for on-chip detection of cell-free DNA fragments using GMR sensors: A translational application in cancer diagnostics using ALU elements. <i>Analytical Methods</i> , 2016 , 8, 119-128	3.2	32
334	Disposable biosensor for detection of iron (III) in wines. <i>Talanta</i> , 2016 , 154, 80-4	6.2	13
333	Linearization of Magnetic Sensors With a Weakly Pinned Free-Layer MTJ Stack Using a Three-Step Annealing Process. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	14
332	A microfluidic, dual-purpose sensor for in vitro detection of Enterobacteriaceae and biotinylated antibodies. <i>Lab on A Chip</i> , 2016 , 16, 1261-71	7.2	11
331	Interference-blind microfluidic sensor for ascorbic acid determination by UV/vis spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 668-675	8.5	20
330	Label-free disposable immunosensor for detection of atrazine. <i>Talanta</i> , 2016 , 146, 430-4	6.2	55
329	Hybrid Integration of Magnetoresistive Sensors with MEMS as a Strategy to Detect Ultra-Low Magnetic Fields. <i>Micromachines</i> , 2016 , 7,	3.3	27
328	Ru-Based Thin Film Temperature Sensor for Space Environments: Microfabrication and Characterization under Total Ionizing Dose. <i>Journal of Sensors</i> , 2016 , 2016, 1-5	2	3
327	Semi-Quantitative Method for Streptococci Magnetic Detection in Raw Milk. <i>Biosensors</i> , 2016 , 6, 19	5.9	24
326	A Magnetoresistive Tactile Sensor for Harsh Environment Applications. <i>Sensors</i> , 2016 , 16,	3.8	23

325	Integration of GMR Sensors with Different Technologies. <i>Sensors</i> , 2016 , 16,	3.8	51
324	Sensitivity and 3 dB Bandwidth in Single and Series-Connected Tunneling Magnetoresistive Sensors. <i>Sensors</i> , 2016 , 16,	3.8	4
323	Alzheimer's Disease: From Mitochondrial Perturbations to Mitochondrial Medicine. <i>Brain Pathology</i> , 2016 , 26, 632-47	6	36
322	A single magnetic nanocomposite cilia force sensor 2016 ,		2
321	Performance enhanced UV/vis spectroscopic microfluidic sensor for ascorbic acid quantification in human blood. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 568-572	11.8	36
320	Development of an electrochemical biosensor for alkylphenol detection. <i>Talanta</i> , 2016 , 158, 30-34	6.2	22
319	AlOx barrier growth in magnetic tunnel junctions for sensor applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 412, 181-184	2.8	7
318	High immunity wafer-level measurement of MHz current. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 94, 474-479	4.6	2
317	Tunneling magnetoresistance sensors for high fidelity current waveforms monitoring. <i>Sensors and Actuators A: Physical</i> , 2016 , 251, 142-147	3.9	7
316	Electrical switching of magnetization in a layer of Fe with a naturally hydroxidized surface. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7751-7755	7.1	2
315	Terahertz dynamics of spins and charges in CoFe/Al ₂ O ₃ multilayers. <i>Physical Review B</i> , 2015 , 91,	3.3	7
314	Magnetic Microfluidic Platform for Biomedical Applications Using Magnetic Nanoparticles. <i>Key Engineering Materials</i> , 2015 , 644, 207-210	0.4	1
313	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	2	5
312	Magnetic-based biomolecule detection using giant magnetoresistance sensors. <i>Journal of Applied Physics</i> , 2015 , 117, 17B731	2.5	18
311	Design and fabrication of SiO ₂ /TiO ₂ and MgO/TiO ₂ based high selective optical filters for diffuse reflectance and fluorescence signals extraction. <i>Biomedical Optics Express</i> , 2015 , 6, 3084-98	3.5	14
310	Detecting Antibody-Labeled BCG MNPs Using a Magnetoresistive Biosensor and Magnetic Labeling Technique. <i>Journal of Nano Research</i> , 2015 , 34, 49-60	1	5
309	Fabrication and mechanical characterization of flexible devices with sensors with magnetoresistance responses above 150% 2015 ,		1
308	Technological advances in bovine mastitis diagnosis: an overview. <i>Journal of Veterinary Diagnostic Investigation</i> , 2015 , 27, 665-72	1.5	41

307	GMR microfluidic biosensor for low concentration detection of Nanomag-D beads 2015 ,		1
306	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	3.9	18
305	Bending Effect on Magnetoresistive Silicon Probes. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	3
304	Integration of Magnetoresistive Sensors With Atomic Force Microscopy Cantilevers for Scanning Magnetoresistance Microscopy Applications. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	4
303	Perspectives on mitochondrial uncoupling proteins-mediated neuroprotection. <i>Journal of Bioenergetics and Biomembranes</i> , 2015 , 47, 119-31	3.7	28
302	Integration of magnetoresistive sensors with atomic force microscopy cantilevers for scanning magnetoresistance microscopy applications 2015 ,		1
301	2. New techniques in environment monitoring 2015 , 35-98		
300	Linearization strategies for high sensitivity magnetoresistive sensors. <i>EPJ Applied Physics</i> , 2015 , 72, 106011	1	58
299	Note: A non-invasive electronic measurement technique to measure the embedded four resistive elements in a Wheatstone bridge sensor. <i>Review of Scientific Instruments</i> , 2015 , 86, 066109	1.7	0
298	Dynamic Wet Etching of Silicon through Isopropanol Alcohol Evaporation. <i>Micromachines</i> , 2015 , 6, 1534-1545	3.5	25
297	Ultra-Compact 100 μm Footprint Hybrid Device with Spin-Valve Nanosensors. <i>Sensors</i> , 2015 , 15, 30311-8	3.8	12
296	A novel approach for detection and quantification of magnetic nanomarkers using a spin valve GMR-integrated microfluidic sensor. <i>RSC Advances</i> , 2015 , 5, 51169-51175	3.7	19
295	Magnetic Counter for Group B Streptococci Detection in Milk. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	4
294	Terahertz Response and Ultrafast Laser-Induced Dynamics of Spins and Charges in CoFe/Al ₂ O ₃ Multilayers. <i>Springer Proceedings in Physics</i> , 2015 , 261-263	0.2	
293	Sub-mA current measurement by means of GMR sensors and state of the art lock-in amplifiers 2015 ,		5
292	Detecting Antibody-Labeled BCG MNPs Using a Magnetoresistive Biosensor and Magnetic Labeling Technique. <i>Journal of Nano Research</i> , 2015 , 35, 92-103	1	1
291	Strategies for pTesla Field Detection Using Magnetoresistive Sensors With a Soft Pinned Sensing Layer. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	24
290	Total ionizing dose (TID) evaluation of magnetic tunnel junction (MTJ) current sensors. <i>Sensors and Actuators A: Physical</i> , 2015 , 225, 119-127	3.9	7

289	A Neuronal Signal Detector for Biologically Generated Magnetic Fields. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 1171-1180	5.2	13
288	Eddy currents testing probe with magneto-resistive sensors and differential measurement. <i>Sensors and Actuators A: Physical</i> , 2014 , 212, 58-67	3.9	25
287	Ordered arrays of tilted silicon nanobelts with enhanced solar hydrogen evolution performance. <i>Nanoscale</i> , 2014 , 6, 2097-101	7.7	8
286	Room temperature direct detection of low frequency magnetic fields in the 100 pT/Hz ^{0.5} range using large arrays of magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2014 , 115, 17E501	2.5	28
285	Effects of methylglyoxal and pyridoxamine in rat brain mitochondria bioenergetics and oxidative status. <i>Journal of Bioenergetics and Biomembranes</i> , 2014 , 46, 347-55	3.7	30
284	Dynamic exchange via spin currents in acoustic and optical modes of ferromagnetic resonance in spin-valve structures. <i>Physical Review B</i> , 2014 , 89,	3.3	16
283	A bacteriophage detection tool for viability assessment of Salmonella cells. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 239-46	11.8	68
282	Monolithic integration of Giant Magnetoresistance (GMR) devices onto standard processed CMOS dies. <i>Microelectronics Journal</i> , 2014 , 45, 702-707	1.8	13
281	Insulin therapy modulates mitochondrial dynamics and biogenesis, autophagy and tau protein phosphorylation in the brain of type 1 diabetic rats. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1154-66	6.9	34
280	Linear nanometric tunnel junction sensors with exchange pinned sensing layer. <i>Journal of Applied Physics</i> , 2014 , 115, 17E526	2.5	13
279	Quasi-digital front-ends for current measurement in integrated circuits with giant magnetoresistance technology. <i>IET Circuits, Devices and Systems</i> , 2014 , 8, 291-300	1.1	9
278	Magneto-transport behavior of double exchange magnetic tunnel junction sensors 2014 ,		1
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