

Susana Cardoso de Freitas

List of Publications by Citations

Source: <https://exaly.com/author-pdf/915834/susana-cardoso-de-freitas-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Magnetoresistive-based biosensors and biochips. <i>Trends in Biotechnology</i> , 2004 , 22, 455-62	15.1	355
449	Magnetoresistive sensors. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 165221	1.8	289
448	Interacting ferromagnetic nanoparticles in discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers: From superspin glass to reentrant superferromagnetism. <i>Physical Review B</i> , 2001 , 63,	3.3	175
447	Large tunneling magnetoresistance enhancement by thermal anneal. <i>Applied Physics Letters</i> , 1998 , 73, 3288-3290	3.4	167
446	Planar Hall effect sensor for magnetic micro- and nanobead detection. <i>Applied Physics Letters</i> , 2004 , 84, 4729-4731	3.4	162
445	Biodetection using magnetically labeled biomolecules and arrays of spin valve sensors (invited). <i>Journal of Applied Physics</i> , 2003 , 93, 7281-7286	2.5	162
444	Study of the dynamic magnetic properties of soft CoFeB films. <i>Journal of Applied Physics</i> , 2006 , 100, 053903	2.5	151
443	Single magnetic microsphere placement and detection on-chip using current line designs with integrated spin valve sensors: Biotechnological applications. <i>Journal of Applied Physics</i> , 2002 , 91, 7786	2.5	147
442	Collective states of interacting ferromagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 192-197	2.8	137
441	Observation of s-d exchange force between domain walls and electric current in very thin Permalloy films. <i>Journal of Applied Physics</i> , 1985 , 57, 1266-1269	2.5	133
440	Overcoming the Dipolar Disorder in Dense CoFe Nanoparticle Ensembles: Superferromagnetism. <i>Physical Review Letters</i> , 2007 , 98,	7.4	130
439	High sensitivity detection of molecular recognition using magnetically labelled biomolecules and magnetoresistive sensors. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 483-8	11.8	123
438	Size dependence of the exchange bias field in NiO/Ni nanostructures. <i>Applied Physics Letters</i> , 2000 , 77, 3815-3817	3.4	122
437	Spin-tunnel-junction thermal stability and interface interdiffusion above 300 °C. <i>Applied Physics Letters</i> , 2000 , 76, 610-612	3.4	118
436	Superparamagnetism versus superspin glass behavior in dilute magnetic nanoparticle systems. <i>Physical Review B</i> , 2005 , 72,	3.3	116
435	Femtomolar limit of detection with a magnetoresistive biochip. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2690-5	11.8	99
434	Vector network analyzer ferromagnetic resonance of thin films on coplanar waveguides: Comparison of different evaluation methods. <i>Journal of Applied Physics</i> , 2007 , 101, 074505	2.5	98

433	Spintronic platforms for biomedical applications. <i>Lab on A Chip</i> , 2012 , 12, 546-57	7.2	96
432	Aging and memory in a superspin glass. <i>Physical Review B</i> , 2003 , 67,	3.3	93
431	Strategies for enhancing the analytical performance of nanomaterial-based sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 47, 27-36	14.6	88
430	The electronic properties of sputtered chromium and iron oxide films. <i>Corrosion Science</i> , 2004 , 46, 1479-1499	6.9	82
429	Low frequency picotesla field detection using hybrid MgO based tunnel sensors. <i>Applied Physics Letters</i> , 2007 , 91, 102504	3.4	78
428	Ion beam deposition and oxidation of spin-dependent tunnel junctions. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 2952-2954	2	77
427	. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-30	2	75
426	Domain wall relaxation, creep, sliding, and switching in superferromagnetic discontinuous Co(80)Fe(20)/Al(2)O3 multilayers. <i>Physical Review Letters</i> , 2002 , 89, 137203	7.4	75
425	Magnetoresistance enhancement in specular, bottom-pinned, Mn83Ir17 spin valves with nano-oxide layers. <i>Applied Physics Letters</i> , 2000 , 77, 1020	3.4	75
424	Tunnel magnetoresistance and magnetic ordering in ion-beam sputtered Co80Fe20/Al2O3 discontinuous multilayers. <i>Journal of Applied Physics</i> , 2001 , 90, 4044-4048	2.5	74
423	The role of endoplasmic reticulum in amyloid precursor protein processing and trafficking: implications for Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1444-53	6.9	70
422	Spintronic Sensors. <i>Proceedings of the IEEE</i> , 2016 , 104, 1894-1918	14.3	69
421	A bacteriophage detection tool for viability assessment of Salmonella cells. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 239-46	11.8	68
420	Superspin-glass nature of discontinuous Co80Fe20/Al2O3 multilayers. <i>Physical Review B</i> , 2002 , 65,	3.3	68
419	Challenges and trends in magnetic sensor integration with microfluidics for biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 213001	3	62
418	Cortical and hippocampal mitochondria bioenergetics and oxidative status during hyperglycemia and/or insulin-induced hypoglycemia. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010 , 1802, 942-51	6.9	61
417	Magnetic microbead detection using the planar Hall effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 677-684	2.8	61
416	GMR sensors and magnetic nanoparticles for immuno-chromatographic assays. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3495-3498	2.8	60

415	A portable and autonomous magnetic detection platform for biosensing. <i>Sensors</i> , 2009 , 9, 4119-37	3.8	60
414	Insulin is a two-edged knife on the brain. <i>Journal of Alzheimer's Disease</i> , 2009 , 18, 483-507	4.3	59
413	Dependence of tunneling magnetoresistance on ferromagnetic electrode thickness and on the thickness of a Cu layer inserted at the Al ₂ O ₃ /CoFe interface. <i>Journal of Applied Physics</i> , 1999 , 85, 5264-5266	2.5	59
412	Linearization strategies for high sensitivity magnetoresistive sensors. <i>EPJ Applied Physics</i> , 2015 , 72, 106011	4.1	58
411	Cooperative versus superparamagnetic behavior of dense magnetic nanoparticles in Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Applied Physics Letters</i> , 2003 , 82, 4116-4118	3.4	58
410	1/f noise in linearized low resistance MgO magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2006 , 99, 08B314	2.5	57
409	Low resistance spin-dependent tunnel junctions deposited with a vacuum break and radio frequency plasma oxidized. <i>Applied Physics Letters</i> , 1999 , 74, 448-450	3.4	57
408	Effect of free layer thickness and shape anisotropy on the transfer curves of MgO magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2008 , 103, 07A910	2.5	56
407	Label-free disposable immunosensor for detection of atrazine. <i>Talanta</i> , 2016 , 146, 430-4	6.2	55
406	Insulin-induced recurrent hypoglycemia exacerbates diabetic brain mitochondrial dysfunction and oxidative imbalance. <i>Neurobiology of Disease</i> , 2013 , 49, 1-12	7.5	55
405	Improving Magnetic Field Detection Limits of Spin Valve Sensors Using Magnetic Flux Guide Concentrators. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2376-2378	2	55
404	Temperature dependence and annealing effects on spin dependent tunnel junctions. <i>Journal of Applied Physics</i> , 1999 , 85, 5258-5260	2.5	55
403	Magnetoresistive chip cytometer. <i>Lab on A Chip</i> , 2011 , 11, 2255-61	7.2	54
402	Low frequency noise in arrays of magnetic tunnel junctions connected in series and parallel. <i>Journal of Applied Physics</i> , 2009 , 105, 113922	2.5	54
401	Magnetic tunnel junction sensors with pTesla sensitivity. <i>Microsystem Technologies</i> , 2014 , 20, 793-802	1.7	53
400	Challenges and trends in the development of a magnetoresistive biochip portable platform. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1655-1663	2.8	51
399	Integration of GMR Sensors with Different Technologies. <i>Sensors</i> , 2016 , 16,	3.8	51
398	Lab-on-chip cytometry based on magnetoresistive sensors for bacteria detection in milk. <i>Sensors</i> , 2014 , 14, 15496-524	3.8	49

397	Tunneling hot spots and heating in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2004 , 95, 6783-6785	47
396	Magnetoresistance and magnetic properties of NiFe/oxide/Co junctions prepared by magnetron sputtering. <i>Journal of Applied Physics</i> , 1994 , 76, 6104-6106	2.5 47
395	Relaxation and aging of a superferromagnetic domain state. <i>Physical Review B</i> , 2003 , 68,	3.3 46
394	Toward a magnetoresistive chip cytometer: Integrated detection of magnetic beads flowing at cm/s velocities in microfluidic channels. <i>Applied Physics Letters</i> , 2009 , 95, 034104	3.4 44
393	Giant Magnetoresistance (GMR) Sensors. <i>Smart Sensors, Measurement and Instrumentation</i> , 2013 ,	0.3 43
392	Resonant tunneling through electronic trapping states in thin MgO magnetic junctions. <i>Physical Review Letters</i> , 2011 , 106, 196601	7.4 43
391	Spin dependent tunnel junctions for memory and read-head applications. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2796-2801	2 43
390	Spin valve sensors with synthetic free and pinned layers. <i>Journal of Applied Physics</i> , 2000 , 87, 5744-5746	2.5 43
389	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
388	Quantitative biomolecular sensing station based on magnetoresistive patterned arrays. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 206-212	11.8 42
387	Electron emission channeling with position-sensitive detectors. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998 , 136-138, 744-750	1.2 42
386	Exchange enhancement and thermal anneal in Mn76Ir24 bottom-pinned spin valves. <i>Journal of Applied Physics</i> , 2001 , 89, 6904-6906	2.5 42
385	Electrode roughness and interfacial mixing effects on the tunnel junction thermal stability. <i>Journal of Applied Physics</i> , 2001 , 89, 6650-6652	2.5 42
384	Technological advances in bovine mastitis diagnosis: an overview. <i>Journal of Veterinary Diagnostic Investigation</i> , 2015 , 27, 665-72	1.5 41
383	Seebeck rectification enabled by intrinsic thermoelectrical coupling in magnetic tunneling junctions. <i>Physical Review Letters</i> , 2012 , 109, 037206	7.4 41
382	2017 ,	40
381	MgO based picotesla field sensors. <i>Journal of Applied Physics</i> , 2008 , 103, 07E931	2.5 40
380	Large Area and Low Aspect Ratio Linear Magnetic Tunnel Junctions With a Soft-Pinned Sensing Layer. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3719-3722	2 39

379	Universal and scaled relaxation of interacting magnetic nanoparticles. <i>Physical Review B</i> , 2004 , 70,	3.3	39
378	High thermal stability tunnel junctions. <i>Journal of Applied Physics</i> , 2000 , 87, 6058-6060	2.5	39
377	Lab-on-Chip Devices: Gaining Ground Losing Size. <i>ACS Nano</i> , 2017 , 11, 10659-10664	16.7	38
376	Hybrid magnetoresistive microelectromechanical devices for static field modulation and sensor 1f noise cancellation. <i>Journal of Applied Physics</i> , 2008 , 103, 07E924	2.5	38
375	40% tunneling magnetoresistance after anneal at 380 °C for tunnel junctions with iron oxide interface layers. <i>Journal of Applied Physics</i> , 2001 , 89, 6665-6667	2.5	38
374	Disposable immunosensors for C-reactive protein based on carbon nanotubes field effect transistors. <i>Talanta</i> , 2013 , 108, 165-70	6.2	37
373	Amorphisation of Zr ₆₀ Al ₁₅ Ni ₂₅ surface layers by laser processing for corrosion resistance. <i>Scripta Materialia</i> , 1997 , 37, 523-527	5.6	37
372	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
371	Low-Frequency Noise in MgO Magnetic Tunnel Junctions: Hooge's Parameter Dependence on Bias Voltage. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2569-2572	2	36
370	Spin-valve sensors exchange-biased by ultrathin TbCo films. <i>Applied Physics Letters</i> , 1994 , 65, 493-495	3.4	36
369	Alzheimer's Disease: From Mitochondrial Perturbations to Mitochondrial Medicine. <i>Brain Pathology</i> , 2016 , 26, 632-47	6	36
368	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
367	Field detection in MgO magnetic tunnel junctions with superparamagnetic free layer and magnetic flux concentrators. <i>Journal of Applied Physics</i> , 2009 , 105, 07E722	2.5	35
366	Rapid DNA hybridization based on ac field focusing of magnetically labeled target DNA. <i>Applied Physics Letters</i> , 2005 , 87, 013901	3.4	35
365	Coherent suppression of magnetic ringing in microscopic spin valve elements. <i>Applied Physics Letters</i> , 2002 , 80, 3781-3783	3.4	35
364	Spin-dependent tunnel junctions with ZrOx barriers. <i>Applied Physics Letters</i> , 2001 , 79, 4387-4389	3.4	35
363	Low-resistance spin-dependent tunnel junctions with ZrAlOx barriers. <i>Applied Physics Letters</i> , 2001 , 79, 4553-4555	3.4	35
362	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

361	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
360	Magnetic Tactile Sensor for Braille Reading. <i>IEEE Sensors Journal</i> , 2016 , 16, 8700-8705	4	33
359	Synthetic ferrimagnet free layer tunnel junction for magnetic random access memories. <i>Journal of Applied Physics</i> , 2002 , 91, 7700	2.5	33
358	Influence of Ta antidiffusion barriers on the thermal stability of tunnel junctions. <i>Applied Physics Letters</i> , 2000 , 76, 3792-3794	3.4	33
357	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
356	OPTIMIZATION AND INTEGRATION OF MAGNETORESISTIVE SENSORS. <i>Spin</i> , 2011 , 01, 71-91	1.3	32
355	Detection of 130nm magnetic particles by a portable electronic platform using spin valve and magnetic tunnel junction sensors. <i>Journal of Applied Physics</i> , 2008 , 103, 07A310	2.5	32
354	Low-current blocking temperature writing of double barrier magnetic random access memory cells. <i>Applied Physics Letters</i> , 2004 , 84, 945-947	3.4	32
353	Resistance decrease in spin tunnel junctions by control of natural oxidation conditions. <i>Applied Physics Letters</i> , 2001 , 79, 2219-2221	3.4	32
352	Tunneling magnetoresistance and current distribution effect in spin-dependent tunnel junctions. <i>Journal of Applied Physics</i> , 1998 , 83, 6694-6696	2.5	32
351	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
350	Biosensors for On-Farm Diagnosis of Mastitis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 186	5.8	31
349	In Vivo Magnetic Recording of Neuronal Activity. <i>Neuron</i> , 2017 , 95, 1283-1291.e4	13.9	31
348	Training effect in specular spin valves. <i>Physical Review B</i> , 2008 , 77,	3.3	31
347	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
346	Magnetic field sensor with voltage-tunable sensing properties. <i>Applied Physics Letters</i> , 2012 , 101, 192401	3.4	30
345	Superferromagnetic domain state of a discontinuous metal insulator multilayer. <i>Physical Review B</i> , 2005 , 72,	3.3	30
344	Tuning of MgO barrier magnetic tunnel junction bias current for picotesla magnetic field detection. <i>Journal of Applied Physics</i> , 2006 , 99, 08K706	2.5	29

- 343 Characterization of CoFeB electrodes for tunnel junctions. *Journal of Applied Physics*, **2005**, 97, 10C916 2.5 29
- 342 Perspectives on mitochondrial uncoupling proteins-mediated neuroprotection. *Journal of Bioenergetics and Biomembranes*, **2015**, 47, 119-31 3.7 28
- 341 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, 17E501 2.5 28
- 340 Magnetic Tunnel Junctions Based on Out-of-Plane Anisotropy Free and In-Plane Pinned Layer Structures for Magnetic Field Sensors. *IEEE Transactions on Magnetics*, **2012**, 48, 3840-3842 2 28
- 339 Toward a system to measure action potential on mice brain slices with local magnetoresistive probes. *Journal of Applied Physics*, **2011**, 109, 07B308 2.5 28
- 338 Current-induced switching in low resistance magnetic tunnel junctions. *Journal of Applied Physics*, **2003**, 93, 8385-8387 2.5 28
- 337 MgO-based magnetic tunnel junction sensors array for non-destructive testing applications. *Journal of Applied Physics*, **2014**, 115, 17E513 2.5 27
- 336 Exchange-biased planar Hall effect sensor optimized for biosensor applications. *Journal of Applied Physics*, **2008**, 103, 07A302 2.5 27
- 335 Field detection in single and double barrier MgO magnetic tunnel junction sensors. *Journal of Applied Physics*, **2008**, 103, 07E922 2.5 27
- 334 Diode/magnetic tunnel junction cell for fully scalable matrix-based biochip. *Journal of Applied Physics*, **2006**, 99, 08B307 2.5 27
- 333 Giant magnetoresistive sensors for rotational speed control. *Journal of Applied Physics*, **1999**, 85, 5459-5461 2.5 27
- 332 Hybrid Integration of Magnetoresistive Sensors with MEMS as a Strategy to Detect Ultra-Low Magnetic Fields. *Micromachines*, **2016**, 7, 332 3.3 27
- 331 IZO deposition by RF and DC sputtering on paper and application on flexible electrochromic devices. *Displays*, **2013**, 34, 326-333 3.4 26
- 330 Crystallization and mechanical behaviour of bulk Zr-Ti-Ni-Cu-Be metallic glasses. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1997**, 76, 529-540 2.5 26
- 329 Domain imaging, MOKE and magnetoresistance studies of CoFeB films for MRAM applications. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 126, 180-186 3.1 26
- 328 Cole-Cole Analysis of the Superspin Glass System Co₈₀Fe₂₀/Al₂O₃. *Phase Transitions*, **2003**, 76, 367-375 2.5 26
- 327 Dynamic heating in submicron size magnetic tunnel junctions with exchange biased storage layer. *Journal of Applied Physics*, **2005**, 97, 10P501 2.5 26
- 326 Annealing effect of magnetic tunnel junctions with one FeOx layer inserted at the Al₂O₃/CoFe interface. *Applied Physics Letters*, **2001**, 78, 2911-2913 3.4 26

325	Transport properties of discontinuous Co/sub 80/Fe/sub 20//Al/sub 2/O/sub 3/ multilayers, prepared by ion beam sputtering. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 2895-2897	2	26
324	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
323	Dynamic Wet Etching of Silicon through Isopropanol Alcohol Evaporation. <i>Micromachines</i> , 2015 , 6, 1534-1545	3.5	25
322	Towards picoTesla Magnetic Field Detection Using a GMR-MEMS Hybrid Device. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4115-4118	2	25
321	Integration of TMR Sensors in Silicon Microneedles for Magnetic Measurements of Neurons. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3512-3515	2	24
320	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
319	Field Detection in Spin Valve Sensors Using CoFeB/Ru Synthetic-Antiferromagnetic Multilayers as Magnetic Flux Concentrators. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3847-3850	2	24
318	Impact of STZ-induced hyperglycemia and insulin-induced hypoglycemia in plasma amino acids and cortical synaptosomal neurotransmitters. <i>Synapse</i> , 2011 , 65, 457-66	2.4	24
317	Resistive switching in nanostructured thin films. <i>Applied Physics Letters</i> , 2009 , 94, 202107	3.4	24
316	Semi-Quantitative Method for Streptococci Magnetic Detection in Raw Milk. <i>Biosensors</i> , 2016 , 6, 19	5.9	24
315	Mitochondria as a target for neuroprotection: implications for Alzheimer's disease. <i>Expert Review of Neurotherapeutics</i> , 2017 , 17, 77-91	4.3	23
314	Versatile, high sensitivity, and automatized angular dependent vectorial Kerr magnetometer for the analysis of nanostructured materials. <i>Review of Scientific Instruments</i> , 2011 , 82, 043902	1.7	23
313	1/f Magnetic Noise Dependence on Free Layer Thickness in Hysteresis Free MgO Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2551-2553	2	23
312	Magnetoresistive DNA chips based on ac field focusing of magnetic labels. <i>Journal of Applied Physics</i> , 2006 , 99, 08P105	2.5	23
311	A Magnetoresistive Tactile Sensor for Harsh Environment Applications. <i>Sensors</i> , 2016 , 16,	3.8	23
310	High-Resolution Nondestructive Test Probes Based on Magnetoresistive Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7326-7337	8.9	23
309	Magnetic field sensing characteristics of MgO based tunneling magnetoresistance devices with Co40Fe40B20 and Co60Fe20B20 electrodes. <i>Sensors and Actuators A: Physical</i> , 2013 , 202, 64-68	3.9	22
308	Magnetoresistive Detection of Magnetic Beads Flowing at High Speed in Microfluidic Channels. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4873-4876	2	22

307	Low aspect ratio micron size tunnel magnetoresistance sensors with permanent magnet biasing integrated in the top lead. <i>Journal of Applied Physics</i> , 2011 , 109, 07E506	2.5	22
306	Continuous thin barriers for low-resistance spin-dependent tunnel junctions. <i>Journal of Applied Physics</i> , 2003 , 93, 8367-8369	2.5	22
305	Development of an electrochemical biosensor for alkylphenol detection. <i>Talanta</i> , 2016 , 158, 30-34	6.2	22
304	Bioinspired Ciliary Force Sensor for Robotic Platforms. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 971-976	4.2	21
303	Functionalization of single-layer graphene for immunoassays. <i>Applied Surface Science</i> , 2019 , 480, 709-716.	7	21
302	Hybrid GMR Sensor Detecting 950 pT/sqrt(Hz) at 1 Hz and Room Temperature. <i>Sensors</i> , 2018 , 18,	3.8	21
301	2-Axis Magnetometers Based on Full Wheatstone Bridges Incorporating Magnetic Tunnel Junctions Connected in Series. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4107-4110	2	21
300	Integration of Magnetoresistive Biochips on a CMOS Circuit. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3784-3787	2	21
299	Three dimensional magnetic flux concentrators with improved efficiency for magnetoresistive sensors. <i>Journal of Applied Physics</i> , 2011 , 109, 07E521	2.5	21
298	A non-invasive thermal drift compensation technique applied to a spin-valve magnetoresistive current sensor. <i>Sensors</i> , 2011 , 11, 2447-58	3.8	21
297	Hybrid Magnetic Tunnel Junction-MEMS High Frequency Field Modulator for 1/f Noise Suppression. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2554-2557	2	21
296	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
295	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
294	Single molecule actuation and detection on a lab-on-a-chip magnetoresistive platform. <i>Journal of Applied Physics</i> , 2011 , 109, 064702	2.5	20
293	Crossover in heating regimes of thermally assisted magnetic memories. <i>Journal of Applied Physics</i> , 2006 , 99, 08N904	2.5	20
292	Ferromagnetic coupling field reduction in CoFeB tunnel junctions deposited by ion beam. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 2272-2274	2	20
291	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
290	Magnetic tunnel junction based eddy current testing probe for detection of surface defects. <i>Journal of Applied Physics</i> , 2014 , 115, 17E516	2.5	19

289	Giant intrinsic thermomagnetic effects in thin MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2013 , 102, 212413	3.4	19
288	Single-particle blocking and collective magnetic states in discontinuous CoFe/Al ₂ O ₃ multilayers. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474002	3	19
287	Analytical compact modeling of GMR based current sensors: Application to power measurement at the IC level. <i>Solid-State Electronics</i> , 2010 , 54, 1606-1612	1.7	19
286	Ion beam assisted deposition of MgO barriers for magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2008 , 103, 07A905	2.5	19
285	Pinholes and temperature-dependent transport properties of MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	19
284	Tunnel junctions with AlN barriers and FeTaN electrodes. <i>Journal of Applied Physics</i> , 2001 , 89, 6868-6870	2.5	19
283	Magnetic-based biomolecule detection using giant magnetoresistance sensors. <i>Journal of Applied Physics</i> , 2015 , 117, 17B731	2.5	18
282	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
281	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
280	Electrical Characterization of a Magnetic Tunnel Junction Current Sensor for Industrial Applications. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2823-2826	2	18
279	Hyperglycemia, hypoglycemia and dementia: role of mitochondria and uncoupling proteins. <i>Current Molecular Medicine</i> , 2013 , 13, 586-601	2.5	18
278	Wheatstone bridge sensor composed of linear MgO magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2010 , 107, 09E712	2.5	18
277	Peculiar magnetic and electrical properties near structural percolation in metal-insulator granular layers. <i>Journal of Applied Physics</i> , 2004 , 96, 3861-3864	2.5	18
276	Effect of spin-valve sensor magnetostatic fields on nanobead detection for biochip applications. <i>Journal of Applied Physics</i> , 2005 , 97, 10Q904	2.5	18
275	Blocking temperature in exchange coupled MnPt/CoFe bilayers and synthetic antiferromagnets. <i>Journal of Applied Physics</i> , 2005 , 97, 10K110	2.5	18
274	Graphene immunosensors for okadaic acid detection in seawater. <i>Microchemical Journal</i> , 2018 , 138, 465-471	4.81	17
273	Reduction of low frequency magnetic noise by voltage-induced magnetic anisotropy modulation in tunneling magnetoresistance sensors. <i>Applied Physics Letters</i> , 2014 , 105, 082404	3.4	17
272	On-chip measurement of the Brownian relaxation frequency of magnetic beads using magnetic tunneling junctions. <i>Applied Physics Letters</i> , 2011 , 98, 073702	3.4	17

271	Distribution of blocking temperatures in nano-oxide layers of specular spin valves. <i>Journal of Applied Physics</i> , 2007 , 101, 113901	2.5	17
270	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
269	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
268	UCP2 and ANT differently modulate proton-leak in brain mitochondria of long-term hyperglycemic and recurrent hypoglycemic rats. <i>Journal of Bioenergetics and Biomembranes</i> , 2013 , 45, 397-407	3.7	16
267	Measuring brain activity with magnetoresistive sensors integrated in micromachined probe needles. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 111, 407-412	2.6	16
266	Modulated magnetization depth profile in dipolarly coupled magnetic multilayers. <i>Physical Review B</i> , 2006 , 74,	3.3	16
265	Three-state memory combining resistive and magnetic switching using tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 5819-5823	3	16
264	Current-induced precessional magnetization reversal. <i>Applied Physics Letters</i> , 2003 , 83, 2205-2207	3.4	16
263	Vertical integration of a spin dependent tunnel junction with an amorphous Si diode. <i>Applied Physics Letters</i> , 1999 , 74, 3893-3895	3.4	16
262	Magnetoresistive nanosensors: controlling magnetism at the nanoscale. <i>Nanotechnology</i> , 2016 , 27, 045501	3.1	15
261	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
260	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	2	15
259	Evidence of spin-polarized direct elastic tunneling and onset of superparamagnetism in MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2010 , 81,	3.3	15
258	The effect of pinhole formation/growth on the tunnel magnetoresistance of MgO-based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2009 , 106, 073707	2.5	15
257	Temperature effects in exchange-biased planar hall sensors for bioapplications. <i>Sensors and Actuators A: Physical</i> , 2009 , 156, 103-108	3.9	15
256	Exchange biased CoFeB-MgO tunnel junctions at the onset of perpendicular anisotropy with in-plane/out-of-plane sensing capabilities. <i>Journal of Applied Physics</i> , 2012 , 111, 053930	2.5	15
255	Bead Capture on Magnetic Sensors in a Microfluidic System. <i>IEEE Sensors Journal</i> , 2009 , 9, 682-688	4	15
254	Study of synthetic ferrimagnet-synthetic antiferromagnet structures for magnetic sensor application. <i>Journal of Applied Physics</i> , 2006 , 99, 08B703	2.5	15

253	Exchange bias of MnPt/CoFe films prepared by ion beam deposition. <i>Journal of Applied Physics</i> , 2004 , 95, 6317-6321	2.5	15
252	Non-equilibrium collective dynamics of a superspin glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1316-1318	2.8	15
251	Magnetic relaxation phenomena in the superspin-glass system [Co ₈₀ Fe ₂₀ /Al ₂ O ₃] ₁₀ . <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 6729-6736	1.8	15
250	Go with the flow: advances and trends in magnetic flow cytometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1839-1862	4.4	15
249	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
248	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
247	Dynamical Detection of Magnetic Nanoparticles in Paper Microfluidics With Spin Valve Sensors for Point-of-Care Applications. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	14
246	Tunneling processes in thin MgO magnetic junctions. <i>Applied Physics Letters</i> , 2010 , 96, 262506	3.4	14
245	Structural characterization and magnetic profile of annealed CoFeB/MgO multilayers. <i>Journal of Applied Physics</i> , 2009 , 105, 113911	2.5	14
244	Effect of Buffer Layer Texture on the Crystallization of CoFeB and on the Tunnel Magnetoresistance in MgO Based Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3464-3466	2	14
243	On-chip magnetoresistive detection of resonance in microcantilevers. <i>Applied Physics Letters</i> , 2009 , 95, 023502	3.4	14
242	Current driven resistance changes in low resistance x area magnetic tunnel junctions with ultra-thin Al-Ox barriers. <i>Journal of Applied Physics</i> , 2004 , 95, 6792-6794	2.5	14
241	Exchange coupling of bilayers and synthetic antiferromagnets pinned to MnPt. <i>European Physical Journal B</i> , 2005 , 45, 207-212	1.2	14
240	Exchange bias in ordered antiferromagnets by rapid thermal anneal without magnetic field. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 2151-2155	3	14
239	Superspin Glass Behavior of Interacting Ferromagnetic Nanoparticles in Discontinuous Magnetic Multilayers. <i>Phase Transitions</i> , 2002 , 75, 73-79	1.3	14
238	Improved Efficiency of Tapered Magnetic Flux Concentrators With Double-Layer Architecture. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	13
237	. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	13
236	Disposable biosensor for detection of iron (III) in wines. <i>Talanta</i> , 2016 , 154, 80-4	6.2	13

235	A Neuronal Signal Detector for Biologically Generated Magnetic Fields. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 1171-1180	5.2	13
234	Monolithic integration of Giant Magnetoresistance (GMR) devices onto standard processed CMOS dies. <i>Microelectronics Journal</i> , 2014 , 45, 702-707	1.8	13
233	Linear nanometric tunnel junction sensors with exchange pinned sensing layer. <i>Journal of Applied Physics</i> , 2014 , 115, 17E526	2.5	13
232	Switching Field Variation in MgO Magnetic Tunnel Junction Nanopillars: Experimental Results and Micromagnetic Simulations. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 4405-4408	2	13
231	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	2	13
230	Noise of MgO-based magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1624-1627	2.8	13
229	Noise Characteristics and Particle Detection Limits in Diode+\$MTJ Matrix Elements for Biochip Applications. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2403-2405	2	13
228	Low-field magnetization study of CoFeAl ₂ O ₃ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 57-61	2.8	13
227	Interlayer dipolar interactions in multilayered granular films. <i>Journal of Applied Physics</i> , 2005 , 97, 10A723.5	2.5	13
226	Diabetes and brain disturbances: A metabolic perspective. <i>Molecular Aspects of Medicine</i> , 2019 , 66, 71-79	6.7	13
225	Ultra-Compact 100 μ m Footprint Hybrid Device with Spin-Valve Nanosensors. <i>Sensors</i> , 2015 , 15, 30311-8	3.8	12
224	Assessment of cardiovascular disease risk using immunosensors for determination of C-reactive protein levels in serum and saliva: a pilot study. <i>Bioanalysis</i> , 2014 , 6, 1459-70	2.1	12
223	Spin Valve Devices With Synthetic-Ferrimagnet Free-Layer Displaying Enhanced Sensitivity for Nanometric Sensors. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	12
222	Magnetic Tunnel Junction Based on MgO Barrier Prepared by Natural Oxidation and Direct Sputtering Deposition. <i>Nano-Micro Letters</i> , 2012 , 4, 25-29	19.5	12
221	Ruderman-Kittel-Kasuyama-Noshida and Néel contributions to the interlayer coupling of MnIr-based spin valves: Influence of deposition rate, roughness and spacer thickness. <i>Journal of Applied Physics</i> , 2008 , 103, 07F319	2.5	12
220	. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3143-3145	2	12
219	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
218	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

217	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
216	MgO Magnetic Tunnel Junction Electrical Current Sensor With Integrated Ru Thermal Sensor. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3866-3869	2	11
215	Monolithic integration of GMR sensors for standard CMOS-IC current sensing. <i>Solid-State Electronics</i> , 2017 , 135, 100-104	1.7	11
214	Microfluidics for the Rapid Detection of Pathogens Using Giant Magnetoresistance Sensors. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	11
213	Customized Design of Magnetic Beads for Dynamic Magnetoresistive Cytometry. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	11
212	Linearization and Field Detectivity in Magnetic Tunnel Junction Sensors Connected in Series Incorporating 16 nm-Thick NiFe Free Layers. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4111-4114	2	11
211	Influence of the Sputtering Parameters on the Properties of Al ₂ O ₃ and Al _n Insulators in Spin Tunneling Junctions. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 475, 469		11
210	Magnetic properties and structure of a new multilayer [FeTaN/TaN] _n for recording heads. <i>Journal of Applied Physics</i> , 1997 , 81, 4501-4503	2.5	11
209	Pinholes in thin low resistance MgO-based magnetic tunnel junctions probed by temperature dependent transport measurements. <i>Journal of Applied Physics</i> , 2008 , 103, 07A909	2.5	11
208	Double-barrier magnetic tunnel junctions with GeSbTe thermal barriers for improved thermally assisted magnetoresistive random access memory cells. <i>Journal of Applied Physics</i> , 2006 , 99, 08N901	2.5	11
207	Study of the oxygen migration versus anneal in Co/AlO _x /Fe ₃ O ₄ /Ti tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 261, L305-L310	2.8	11
206	Effect of natural oxidation conditions on low resistance spin tunnel junctions. <i>Journal of Applied Physics</i> , 2002 , 91, 8786	2.5	11
205	Rapid and specific detection of cell-derived microvesicles using a magnetoresistive biochip. <i>Analyst</i> , 2017 , 142, 979-986	5	10
204	Bipolar resistive switching in Si/Ag nanostructures. <i>Applied Surface Science</i> , 2017 , 424, 122-126	6.7	10
203	Voltage-polarity dependent multi-mode resistive switching on sputtered MgO nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10898-10904	3.6	10
202	Dynamics of the reference layer driven by spin-transfer torque: Analytical versus simulation model. <i>Journal of Applied Physics</i> , 2011 , 109, 113914	2.5	10
201	Control of hysteretic behavior in flux concentrators. <i>Applied Physics Letters</i> , 2009 , 94, 073501	3.4	10
200	Magnetic states of discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 240, 433-435	2.8	10

199	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
198	Diabetes-Alzheimer's Disease Link: Targeting Mitochondrial Dysfunction and Redox Imbalance. <i>Antioxidants and Redox Signaling</i> , 2021 , 34, 631-649	8.4	10
197	Annealing free magnetic tunnel junction sensors. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 165001	3	9
196	On-Chip Magnetic Nanoparticle Manipulation and Trapping for Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	9
195	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
194	Electronic Energy Meter Based on a Tunnel Magnetoresistive Effect (TMR) Current Sensor. <i>Materials</i> , 2017 , 10,	3.5	9
193	Fractional modeling of the AC large-signal frequency response in magnetoresistive current sensors. <i>Sensors</i> , 2013 , 13, 17516-33	3.8	9
192	Self-powered, hybrid antenna-magnetoresistive sensor for magnetic field detection. <i>Applied Physics Letters</i> , 2011 , 98, 103503	3.4	9
191	Electrical Isolators Based on Tunneling Magnetoresistance Technology. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4011-4014	2	9
190	Linear field amplification for magnetoresistive sensors. <i>Journal of Applied Physics</i> , 2008 , 103, 103914	2.5	9
189	Transmission Electron Microscopy evidence of the growth of a magnetite layer acting as a spin filter in CoFe ₂ O ₃ /CoFe magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2004 , 96, 3307-3311	2.5	9
188	Low-resistance magnetic tunnel junctions prepared by partial remote plasma oxidation of 0.9nm Al barriers. <i>Applied Physics Letters</i> , 2005 , 86, 192502	3.4	9
187	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
186	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
185	Uncoupling Protein 2 Inhibition Exacerbates Glucose Fluctuation-Mediated Neuronal Effects. <i>Neurotoxicity Research</i> , 2018 , 33, 388-401	4.3	8
184	Nanoscale true random bit generator based on magnetic state transitions in magnetic tunnel junctions. <i>Scientific Reports</i> , 2019 , 9, 15661	4.9	8
183	Ordered arrays of tilted silicon nanobelts with enhanced solar hydrogen evolution performance. <i>Nanoscale</i> , 2014 , 6, 2097-101	7.7	8
182	Micromagnetic and magneto-transport simulations of nanodevices based on MgO tunnel junctions for memory and sensing applications. <i>Physica B: Condensed Matter</i> , 2014 , 435, 163-167	2.8	8

181	Nanofabrication of 30 nm devices incorporating low resistance magnetic tunnel junctions. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5951-7	1.3	8
180	Insulin and Insulin-Sensitizing Drugs in Neurodegeneration: Mitochondria as Therapeutic Targets. <i>Pharmaceuticals</i> , 2009 , 2, 250-286	5.2	8
179	Food deprivation promotes oxidative imbalance in rat brain. <i>Journal of Food Science</i> , 2009 , 74, H8-H14	3.4	8
178	A DC behavioral electrical model for quasi-linear spin-valve devices including thermal effects for circuit simulation. <i>Microelectronics Journal</i> , 2011 , 42, 365-370	1.8	8
177	Electrode band structure effects in thin MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2012 , 100, 072406	3.4	8
176	Dynamic magnetization properties of a superferromagnetic metal-insulator multilayer observed by magneto-optic Kerr microscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 07C306	2.5	8
175	Soft Thin Films for Flux Concentrators. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 168-171	2	8
174	Picomolar detection limit on a magnetoresistive biochip after optimization of a thiol-gold based surface chemistry. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5994-6002	1.3	8
173	Collective magnetic states of ferromagnetic nanoparticles in the superspin limit. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3288-3296		8
172	Low resistance spin-dependent tunnel junctions with ZrAlOx barriers. <i>Journal of Applied Physics</i> , 2002 , 91, 7463	2.5	8
171	Magnetic states of granular layered CoFe-Al/sub 2/O/sub 3/ system. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2200-2203	2	8
170	Microfabrication Techniques for Microfluidic Devices 2018 , 25-51		8
169	Semi-quantitative method for Staphylococci magnetic detection in raw milk. <i>Journal of Dairy Research</i> , 2017 , 84, 80-88	1.6	7
168	Terahertz dynamics of spins and charges in CoFe/Al ₂ O ₃ multilayers. <i>Physical Review B</i> , 2015 , 91,	3.3	7
167	Experimental testing for metrological traceability and accuracy of liquid microflows and microfluidics. <i>Flow Measurement and Instrumentation</i> , 2020 , 71, 101691	2.2	7
166	Barrier breakdown mechanism in nano-scale perpendicular magnetic tunnel junctions with ultrathin MgO barrier. <i>AIP Advances</i> , 2018 , 8, 055908	1.5	7
165	Enhanced magnetic microcytometer with 3D flow focusing for cell enumeration. <i>Lab on A Chip</i> , 2018 , 18, 2593-2603	7.2	7
164	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

163	Observation of spin-dependent quantum well resonant tunneling in textured CoFeB layers. <i>Applied Physics Letters</i> , 2014 , 104, 112414	3.4	7
162	X-ray diffraction analysis and Monte Carlo simulations of CoFeB-MgO based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2013 , 113, 023915	2.5	7
161	Stability studies of exchange bias field of Mn80Ir20/Co60Fe20B20 by network analyzer ferromagnetic resonance. <i>Applied Physics Letters</i> , 2010 , 97, 132502	3.4	7
160	Influence of ion beam assisted deposition parameters on the growth of MgO and CoFeB. <i>Journal of Applied Physics</i> , 2012 , 111, 07C117	2.5	7
159	Spin-dependent two-level resistance fluctuations in underoxidized tunnel junctions. <i>Journal of Applied Physics</i> , 2006 , 99, 08T301	2.5	7
158	Buried word line planarization and roughness control for tunnel junction magnetic random access memory switching. <i>Journal of Applied Physics</i> , 2000 , 87, 6382-6384	2.5	7
157	Time-dependent transport effects in CoFe/Al2O3 discontinuous multilayers. <i>Journal of Applied Physics</i> , 2000 , 87, 6328-6330	2.5	7
156	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
155	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
154	Tunneling magnetoresistance sensors for high fidelity current waveforms monitoring. <i>Sensors and Actuators A: Physical</i> , 2016 , 251, 142-147	3.9	7
153	Tailoring the cap morphology of electrodeposited gold micro-mushrooms. <i>Applied Surface Science</i> , 2018 , 445, 512-518	6.7	6
152	Radiation sensors based on GaN microwires. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 175105	3	6
151	Optimization of exposure parameters for lift-off process of sub-100 features using a negative tone electron beam resist 2012 ,		6
150	NiFe/CoFe/Cu/CoFe/MnIr spin valves studied by ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2013 , 113, 17D713	2.5	6
149	Magnetic field strength and orientation effects on Co-Fe discontinuous multilayers close to percolation. <i>Physical Review B</i> , 2010 , 82,	3.3	6
148	Dynamic Thermomagnetic Writing in Tunnel Junction Cells Incorporating Two GeSbTe Thermal Barriers. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 2718-2720	2	6
147	Current-in-plane transport in granular single layers and multilayers of CoFe in Al2O3. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 62-67	2.8	6
146	Characterization of nano-oxide layers fabricated by ion beam oxidation. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2755-2757	2	6

145	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
144	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
143	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
142	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
141	Multilevel process on large area wafers for nanoscale devices. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 222-229	5	5
140	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
139	Sub-mA current measurement by means of GMR sensors and state of the art lock-in amplifiers 2015		5
138	Waterborne Pathogen Detection Using a Magnetoresistive Immuno-Chip. <i>Springer Protocols</i> , 2012 , 263-288		5
137	Coupling and induced depinning of magnetic domain walls in adjacent spin valve nanotracks. <i>Journal of Applied Physics</i> , 2013 , 113, 133901	2.5	5
136	Magnetic and transport properties of diluted granular multilayers. <i>Journal of Applied Physics</i> , 2009 , 106, 113910	2.5	5
135	Interface stability of magnetic tunnel barriers and electrodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 2778-2784	1.6	5
134	Interface stability in CoFe and CoFeB based multilayers. <i>Superlattices and Microstructures</i> , 2007 , 41, 122-126		5
133	Effect of Anti-Diffusion Oxide Layer on Enhanced Thermal Stability of Magnetic Tunnel Junctions. <i>Chinese Physics Letters</i> , 2006 , 23, 932-935	1.8	5
132	A round robin characterisation of the thickness and composition of thin to ultra-thin AlNO films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 227, 397-419	1.2	5
131	Analytical electron microscopy of advanced multilayer structures for magnetic devices. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 1869-1874	3	5
130	Magnetoresistive Detection of Clinical Biomarker for Monitoring of Colorectal Cancer. <i>IEEE Magnetics Letters</i> , 2019 , 10, 1-5	1.6	5
129	All-spinel oxide Josephson junctions for high-efficiency spin filtering. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 015804	1.8	5
128	360° domain walls in magnetic thin films with uniaxial and random anisotropy. <i>Physical Review B</i> , 2018 , 98,	3.3	5

127	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
126	Reconfigurable Spintronics Wheatstone Bridge Sensors With Offset Voltage Compensation at Wafer Level. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	4
125	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
124	Wideband High-Resolution Frequency-to-Resistance Converter Based on Nonhomogeneous Magnetic-State Transitions. <i>Physical Review Applied</i> , 2020 , 13,	4.3	4
123	. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	4
122	Flexible Magnetoresistive Sensors Designed for Conformal Integration. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	4
121	Magnetic Counter for Group B Streptococci Detection in Milk. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	4
120	Electrical ammeter based on spin-valve sensor. <i>Review of Scientific Instruments</i> , 2012 , 83, 105113	1.7	4
119	Integrated Spintronic Platforms for Biomolecular Recognition Detection. <i>AIP Conference Proceedings</i> , 2008 ,	0	4
118	Local structure in CoFe/Al ₂ O ₃ multilayers determined by nuclear magnetic resonance. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 943-945	2.8	4
117	Determination of the composition of light thin films with artificial neural network analysis of Rutherford backscattering experiments. <i>Physical Review E</i> , 2003 , 67, 046705	2.4	4
116	Low resistance tunnel junctions with remote plasma underoxidized thick barriers. <i>Journal of Applied Physics</i> , 2005 , 97, 10C903	2.5	4
115	FMR in CoFe/Al ₂ O ₃ multilayers: from continuous to discontinuous regime. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1828-1830	2.8	4
114	Pulsed sub-band-gap photoexcitation of AlN. <i>Diamond and Related Materials</i> , 2001 , 10, 1326-1330	3.5	4
113	Highly sensitive bio-inspired sensor for fine surface exploration and characterization 2020 ,		4
112	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
111	Sensitivity and 3 dB Bandwidth in Single and Series-Connected Tunneling Magnetoresistive Sensors. <i>Sensors</i> , 2016 , 16,	3.8	4
110	Reading magnetic ink patterns with magnetoresistive sensors. <i>AIP Advances</i> , 2018 , 8, 056633	1.5	4

109	Organic Single Crystal Patterning Method for Micrometric Photosensors. <i>Advanced Functional Materials</i> , 2105638	15.6	4
108	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
107	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
106	Dark matters: black-PDMS nanocomposite for opaque microfluidic systems. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2719-2726	3.6	3
105	Towards a portable magnetoresistive biochip for urease-based biocementation monitoring* 2019,		3
104	Bending Effect on Magnetoresistive Silicon Probes. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4	2	3
103	Multiple Bacteria Identification in the Point-of-Care: an Old Method Serving a New Approach. <i>Sensors</i> , 2020, 20,	3.8	3
102	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
101	Manipulation of Magnetic Beads with Thin Film Microelectromagnet Traps. <i>Micromachines</i> , 2019, 10,	3.3	3
100	Effects of geometry parameters of NTFET devices on the I_{DSD} measurements. <i>Solid-State Electronics</i> , 2013, 81, 32-34	1.7	3
99	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
98	Microfabrication Techniques. <i>Smart Sensors, Measurement and Instrumentation</i> , 2013, 31-45	0.3	3
97	Magnetic tunnel junction sensors with pTesla sensitivity for biomedical imaging 2013,		3
96	Angular dependence of exchange bias in Mn80Ir20/Co60Fe20B20 bilayers. <i>Journal of Applied Physics</i> , 2011, 109, 07D704	2.5	3
95	Hybrid antenna-magnetoresistive sensor for radio frequency field detection. <i>Journal of Applied Physics</i> , 2011, 109, 07E505	2.5	3
94	Spintronic chip cytometer. <i>Journal of Applied Physics</i> , 2011, 109, 07B311	2.5	3
93	Reduction of critical current in magnetic tunnel junctions with CoFeB/Ru/CoFeB synthetic free layer. <i>Journal of Physics: Conference Series</i> , 2010, 200, 052035	0.3	3
92	High Sensitivity Spin Valve Sensors With AF Coupled Flux Guides. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2472-2474	2	3

91	Polarized neutron reflectivity studies on granular Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Physica B: Condensed Matter</i> , 2007 , 397, 65-67	2.8	3
90	Nanostructures for Spin Electronics 2006 , 403-460		3
89	AC susceptibility studies of discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1825-1827	2.8	3
88	Performance of dual-stripe giant magnetoresistive heads on tape. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 4351-4360	2	3
87	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
86	Resistive switching of silicon-silver thin film devices in flexible substrates. <i>Nanotechnology</i> , 2020 , 31, 135702	3.4	3
85	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
84	Spintronic Biochips 2017 , 165-200		2
83	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
82	MnNi-based spin valve sensors combining high thermal stability, small footprint and pTesla detectivities. <i>AIP Advances</i> , 2018 , 8, 056644	1.5	2
81	Resonant and non-resonant microwave absorption as a probe of the magnetic dynamics and switching in spin valves. <i>Journal of Applied Physics</i> , 2013 , 114, 023906	2.5	2
80	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
79	Numerical Evaluation of Bacterial Cell Concentration by Magnetoresistive Cytometry. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
78	Magnetic Tunnel Junction (MTJ) sensors for integrated circuits (IC) electric current measurement 2013 ,		2
77	The influence of annealing on the bimodal distribution of blocking temperatures of exchange biased bilayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 676-680	2.5	2
76	Quasi-digital conversion for resistive devices: Application in GMR-based IC current sensors 2013 ,		2
75	[FeTaN/TaN] _n soft multilayers for write head pole pieces. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 363-366	2.8	2
74	Bead capture and release on a magnetic sensor in a microfluidic system 2008 ,		2

73	Dynamic thermo-magnetic writing in tunnel junction cells incorporating two GeSbTe thermal barriers 2006 ,		2
72	Nanocharacterisation of magnetic structures. <i>Journal of Physics: Conference Series</i> , 2006 , 26, 169-174	0.3	2
71	Superferromagnetic domain state dynamics in discontinuous CoFe/Al ₂ O ₃ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1201-E1203	2.8	2
70	Peculiar CIP transport in CoFe/Al ₂ O ₃ granular layered films across a micro-gap. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 485-488	2.8	2
69	RBS study of the interdiffusion effect between CoFe/MnIr layers in tunnel junctions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 170, 205-210	1.2	2
68	Reading thin film permanent magnet irregular patterns using magnetoresistive sensors. <i>Sensors and Actuators A: Physical</i> , 2020 , 303, 111673	3.9	2
67	Spine Cop: Posture Correction Monitor and Assistant. <i>Sensors</i> , 2020 , 20,	3.8	2
66	A four-state magnetic tunnel junction switchable with spin-orbit torques. <i>Applied Physics Letters</i> , 2020 , 117, 072404	3.4	2
65	Bias Voltage Dependence of Sensing Characteristics in Tunneling Magnetoresistance Sensors. <i>Sensors</i> , 2021 , 21,	3.8	2
64	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
63	A single magnetic nanocomposite cilia force sensor 2016 ,		2
62	High immunity wafer-level measurement of MHz current. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 94, 474-479	4.6	2
61	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
60	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
59	Two-dimensional arrays of vertically packed spin-valves with picoTesla sensitivity at room temperature. <i>Scientific Reports</i> , 2021 , 11, 215	4.9	2
58	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
57	IGF1R Deficiency Modulates Brain Signaling Pathways and Disturbs Mitochondria and Redox Homeostasis. <i>Biomedicines</i> , 2021 , 9,	4.8	2
56	3D Magnetic Field Reconstruction Methodology Based on a Scanning Magnetoresistive Probe. <i>Sensors</i> , 2018 , 18,	3.8	2

55	Microneedles with integrated magnetoresistive sensors: A precision tool in biomedical instrumentation 2017 ,		1
54	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
53	Magnetic Microfluidic Platform for Biomedical Applications Using Magnetic Nanoparticles. <i>Key Engineering Materials</i> , 2015 , 644, 207-210	0.4	1
52	Fabrication and mechanical characterization of flexible devices with sensors with magnetoresistance responses above 150% 2015 ,		1
51	GMR microfluidic biosensor for low concentration detection of Nanomag-D beads 2015 ,		1
50	Magnetic Microfluidic Biosensor for the Detection and Quantification of Biomolecules 2016 ,		1
49	A tunnel magnetoresistive effect wattmeters-based wireless sensors network. <i>Sensors and Actuators A: Physical</i> , 2017 , 264, 224-233	3.9	1
48	Integration of magnetoresistive sensors with atomic force microscopy cantilevers for scanning magnetoresistance microscopy applications 2015 ,		1
47	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
46	Magneto-transport behavior of double exchange magnetic tunnel junction sensors 2014 ,		1
45	An in-depth noise model for giant magnetoresistance current sensors for circuit design and complementary metaloxide semiconductor integration. <i>Journal of Applied Physics</i> , 2014 , 115, 17E514	2.5	1
44	Giant Magnetoresistance (GMR) sensors for 0.35 μ m CMOS technology sub-mA current sensing 2014 ,		1
43	Unexpected exchange bias behaviour in CoFeB ultrathin films for MTJ sensors investigated by Lorentz microscopy. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 305001	3	1
42	Spin Transfer on Low Resistance-Area MgO-Based Magnetic Tunnel Junctions Prepared by Ion Beam Deposition. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2002-2004	2	1
41	Performance Degradation of Microcrystalline Silicon-Based p-i-n Detectors Upon He4 Irradiation. <i>Materials Science Forum</i> , 1997 , 258-263, 593-598	0.4	1
40	Transition from Non-Percolated Superferromagnetism to Percolated Ferromagnetism in Granular Metal-Insulator Multilayers 2008 ,		1
39	Transport Properties of Low Resistance Underoxidized Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2815-2817	2	1
38	Magnetic characterization of MnPt/CoFe bilayers using the MOKE technique. <i>Vacuum</i> , 2008 , 82, 1486-1488	3.7	1

37	Short-Range Effects and Magnetization Reversal in Co ₈₀ Fe ₂₀ Thin Films: A MOKE Magnetometry/ Domain Imaging and AMR Study. <i>Materials Science Forum</i> , 2006 , 514-516, 1145-1149	0.4	1
36	Composition analysis of the insulating barrier in magnetic tunnel junctions by grazing angle of incidence RBS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 190, 684-688	1.2	1
35	HIGH RESOLUTION IBA ANALYSIS OF SPIN DEPENDENT TUNNEL JUNCTIONS. <i>Modern Physics Letters B</i> , 2001 , 15, 1288-1296	1.6	1
34	Micromagnetic analysis and current biasing of dual-stripe GMR and dual-GMR sensors for high density recording. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 1510-1512	2	1
33	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
32	Europium-Implanted AlN Nanowires for Red Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2022 ,	5.6	1
31	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
30	Ion beam induced current analysis in GaN microwires. <i>EPJ Web of Conferences</i> , 2020 , 233, 05001	0.3	1
29	Self-powered proton detectors based on GaN core-shell p-n microwires. <i>Applied Physics Letters</i> , 2021 , 118, 193501	3.4	1
28	Automatic System to Count and Classify Bacteria Based on Magnetic Cytometry. <i>IEEE Magnetics Letters</i> , 2019 , 10, 1-5	1.6	1
27	Lab-on-a-chip: Systems integration at the microscale 2021 , 63-87		1
26	Introduction to microfabrication techniques for microfluidics devices 2021 , 19-30		1
25	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
24	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
23	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
22	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
21	Silicon Carbide and Magnetoresistive Technologies for Solid State Power Controllers. <i>E3S Web of Conferences</i> , 2017 , 16, 12004	0.5	
20	Toward pTesla Detectivities Maintaining Minimum Sensor Footprint With Vertical Packaging of Spin Valves. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	

19 The Janus Face of Insulin in Brain **2013**, 85-113

18 2. New techniques in environment monitoring **2015**, 35-98

17 MagCMOS170-182

16 Terahertz Response and Ultrafast Laser-Induced Dynamics of Spins and Charges in CoFe/Al₂O₃ Multilayers. *Springer Proceedings in Physics*, **2015**, 261-263 0.2

15 Magnetic Field Sensing Properties of CoFeB-MgO-CoFeB based Tunneling Magnetoresistance Devices. *Procedia Engineering*, **2012**, 47, 1414-1417

14 Magnetic Field Enhancement with Soft Magnetic Flux Guides. *Materials Science Forum*, **2008**, 587-588, 313-317 0.4

13 Magnetoresistive-based static tester for actuators. *Journal of Applied Physics*, **2008**, 103, 07F537 2.5

12 Analysis of nanolayered samples with a 4He beam. *Nuclear Instruments & Methods in Physics Research B*, **2005**, 241, 361-364 1.2

11 Transport, Magnetic and Time Dependent Effects in Metal-Insulator Granular Layered Films. *Materials Science Forum*, **2001**, 373-376, 81-86 0.4

10 Detecting Magnetic Ink Barcodes with Handheld Magnetoresistive Sensors. *IEEE Transactions on Magnetics*, **2022**, 1-1 2

9 X-ray Reflectivity and Polarized Neutron Reflectivity Investigations of [Co₆₀Fe₆₀B₂₀/MgO]_n Multilayers. *Acta Physica Polonica A*, **2007**, 112, 1249-1257 0.6

8 Layer and Interface Structure of CoFe/Ru Multilayers. *Acta Physica Polonica A*, **2007**, 112, 1243-1248 0.6

7 Estimating the uncertainties of strain and damage analysis by X-ray diffraction in ion implanted MoO₃. *Nuclear Instruments & Methods in Physics Research B*, **2020**, 478, 290-296 1.2

6 Towards an on-chip optical microsystem for spectroscopic detection of gastrointestinal dysplasia. *Sensors and Actuators B: Chemical*, **2019**, 281, 751-756 8.5

5 Using integrated current lines to control the operation point of highly sensitive magnetoresistive sensors. *Journal of Magnetism and Magnetic Materials*, **2021**, 537, 168152 2.8

4 Bringing flexibility to giant magnetoresistive sensors directly grown onto commercial polymeric foils. *Journal of Magnetism and Magnetic Materials*, **2021**, 538, 168153 2.8

3 Seebeck effect and Joule heating in CoFeB/MgO/CoFeB-based perpendicular magnetic tunnel junctions with low resistance area product. *Journal Physics D: Applied Physics*, **2022**, 55, 265302 3

2 On-site magnetic screening tool for rapid detection of hospital bacterial infections: Clinical study with *Klebsiella pneumoniae* cells. *Biosensors and Bioelectronics: X*, **2022**, 11, 100149 2.9

- 1 Evolution in Automatized Detection of Cells: Advances in Magnetic Microcytometers for Cancer Cells. *Advances in Experimental Medicine and Biology*, **2022**, 413-444 3.6