## Paulo Freitas

#### List of Publications by Citations

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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.

 516
 11,820
 54
 84

 papers
 citations
 h-index
 g-index

 535
 12,905
 3.3
 6.11

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
516	Magnetoresistive-based biosensors and biochips. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 455-62	15.1	355
515	Magnetoresistive sensors. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 165221	1.8	289
5 <sup>1</sup> 4	Thermodynamic fluctuations in the superconductor Y1Ba2Cu3O9- delta: Evidence for three-dimensional superconductivity. <i>Physical Review B</i> , <b>1987</b> , 36, 833-835	3.3	278
513	Interacting ferromagnetic nanoparticles in discontinuous Co80Fe20/Al2O3 multilayers: From superspin glass to reentrant superferromagnetism. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	175
512	Large tunneling magnetoresistance enhancement by thermal anneal. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3288-3290	3.4	167
511	Planar Hall effect sensor for magnetic micro- and nanobead detection. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4729-4731	3.4	162
510	Biodetection using magnetically labeled biomolecules and arrays of spin valve sensors (invited). <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 7281-7286	2.5	162
509	Study of the dynamic magnetic properties of soft CoFeB films. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 05.	3 <b>9</b> 0 <del>;</del> 3	151
508	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> , <b>2002</b> , 91, 7786	2.5	147
507	Phase coherent precessional magnetization reversal in microscopic spin valve elements. <i>Physical Review Letters</i> , <b>2003</b> , 90, 017201	7.4	140
506	Femtosecond control of electric currents in metallic ferromagnetic heterostructures. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 455-8	28.7	137
505	Collective states of interacting ferromagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 300, 192-197	2.8	137
504	Quasiballistic magnetization reversal. <i>Physical Review Letters</i> , <b>2003</b> , 90, 017204	7.4	136
503	Observation of s-d exchange force between domain walls and electric current in very thin Permalloy films. <i>Journal of Applied Physics</i> , <b>1985</b> , 57, 1266-1269	2.5	133
502	Overcoming the Dipolar Disorder in Dense CoFe Nanoparticle Ensembles: Superferromagnetism. <i>Physical Review Letters</i> , <b>2007</b> , 98,	7.4	130
501	High sensitivity detection of molecular recognition using magnetically labelled biomolecules and magnetoresistive sensors. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 18, 483-8	11.8	123
500	Spin-tunnel-junction thermal stability and interface interdiffusion above 300 °C. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 610-612	3.4	118

# (2001-2005)

499	Superparamagnetism versus superspin glass behavior in dilute magnetic nanoparticle systems. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	116
498	Ion beam deposition of Mn-Ir spin valves. <i>IEEE Transactions on Magnetics</i> , <b>1999</b> , 35, 4361-4367	2	111
497	Femtomolar limit of detection with a magnetoresistive biochip. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2690-5	11.8	99
496	Vector network analyzer ferromagnetic resonance of thin films on coplanar waveguides: Comparison of different evaluation methods. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 074505	2.5	98
495	Spintronic platforms for biomedical applications. <i>Lab on A Chip</i> , <b>2012</b> , 12, 546-57	7.2	96
494	Properties of epitaxial films of YBa2Cu3O7- delta. <i>Physical Review B</i> , <b>1987</b> , 36, 8903-8906	3.3	95
493	Radiation of spin waves by a single micrometer-sized magnetic element. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2866-2868	3.4	94
492	Aging and memory in a superspin glass. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	93
491	High-temperature order-disorder phase transition in the superconductor Y1Ba. <i>Physical Review B</i> , <b>1987</b> , 36, 5723-5726	3.3	93
490	Comparative study of superconducting energy gaps in oriented films and polycrystalline bulk samples of Y-Ba-Cu-O. <i>Physical Review Letters</i> , <b>1987</b> , 59, 704-707	7.4	83
489	The electronic properties of sputtered chromium and iron oxide films. <i>Corrosion Science</i> , <b>2004</b> , 46, 1479	9-6499	82
488	Low frequency picotesla field detection using hybrid MgO based tunnel sensors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 102504	3.4	78
487	Ion beam deposition and oxidation of spin-dependent tunnel junctions. <i>IEEE Transactions on Magnetics</i> , <b>1999</b> , 35, 2952-2954	2	77
486	Magnetic field-assisted DNA hybridisation and simultaneous detection using micron-sized spin-valve sensors and magnetic nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 107, 936-944	8.5	76
485	. IEEE Transactions on Magnetics, <b>2019</b> , 55, 1-30	2	75
484	Domain wall relaxation, creep, sliding, and switching in superferromagnetic discontinuous Co(80)Fe(20)/Al(2)O3 multilayers. <i>Physical Review Letters</i> , <b>2002</b> , 89, 137203	7.4	75
483	Magnetoresistance enhancement in specular, bottom-pinned, Mn83Ir17 spin valves with nano-oxide layers. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1020	3.4	75
482	Tunnel magnetoresistance and magnetic ordering in ion-beam sputtered Co80Fe20/Al2O3 discontinuous multilayers. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 4044-4048	2.5	74

481	Spin valve sensors. Sensors and Actuators A: Physical, <b>2000</b> , 81, 2-8	3.9	73
480	Raman and infrared results on YBa2Cu3O7-x type materials. Solid State Communications, 1987, 64, 471-	4 <b>7.6</b>	72
479	Current-induced magnetization switching in magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2871-2873	3.4	70
478	Spintronic Sensors. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 1894-1918	14.3	69
477	A bacteriophage detection tool for viability assessment of Salmonella cells. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 52, 239-46	11.8	68
476	Superspin-glass nature of discontinuous Co80Fe20/Al2O3 multilayers. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	68
475	On-chip manipulation and magnetization assessment of magnetic bead ensembles by integrated spin-valve sensors. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 7445	2.5	67
474	Challenges and trends in magnetic sensor integration with microfluidics for biomedical applications. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 213001	3	62
473	Magnetic microbead detection using the planar Hall effect. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 677-684	2.8	61
472	GMR sensors and magnetic nanoparticles for immuno-chromatographic assays. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3495-3498	2.8	60
471	A portable and autonomous magnetic detection platform for biosensing. Sensors, 2009, 9, 4119-37	3.8	60
470	Dependence of tunneling magnetoresistance on ferromagnetic electrode thickness and on the thickness of a Cu layer inserted at the Al2O3/CoFe interface. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 5264-	5 <del>2</del> ∕ <b>ē</b> 6	59
469	Linearization strategies for high sensitivity magnetoresistive sensors. EPJ Applied Physics, 2015, 72, 106	50:11	58
468	Cooperative versus superparamagnetic behavior of dense magnetic nanoparticles in Co80Fe20/Al2O3 multilayers. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4116-4118	3.4	58
467	1flnoise in linearized low resistance MgO magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08B314	2.5	57
466	Low resistance spin-dependent tunnel junctions deposited with a vacuum break and radio frequency plasma oxidized. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 448-450	3.4	57
465	Effect of free layer thickness and shape anisotropy on the transfer curves of MgO magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07A910	2.5	56
464	Improving Magnetic Field Detection Limits of Spin Valve Sensors Using Magnetic Flux Guide Concentrators. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2376-2378	2	55

#### (2001-1999)

463	Temperature dependence and annealing effects on spin dependent tunnel junctions. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 5258-5260	2.5	55	
462	Magnetoresistive chip cytometer. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2255-61	7.2	54	
461	Low frequency noise in arrays of magnetic tunnel junctions connected in series and parallel. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 113922	2.5	54	
460	Magnetic tunnel junction sensors with pTesla sensitivity. <i>Microsystem Technologies</i> , <b>2014</b> , 20, 793-802	1.7	53	
459	Challenges and trends in the development of a magnetoresistive biochip portable platform. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 1655-1663	2.8	51	
458	Integration of GMR Sensors with Different Technologies. Sensors, 2016, 16,	3.8	51	
457	Multifunctional magnetic-responsive hydrogels to engineer tendon-to-bone interface. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 2375-2385	6	49	
456	Lab-on-chip cytometry based on magnetoresistive sensors for bacteria detection in milk. <i>Sensors</i> , <b>2014</b> , 14, 15496-524	3.8	49	
455	Tunneling hot spots and heating in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 6783	8- <u>6</u> .7 <del>5</del> 85	47	
454	Magnetoresistance and magnetic properties of NiFe/oxide/Co junctions prepared by magnetron sputtering. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 6104-6106	2.5	47	
453	Relaxation and aging of a superferromagnetic domain state. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	46	
452	Interaction of polyacrylic acid coated and non-coated iron oxide nanoparticles with human neutrophils. <i>Toxicology Letters</i> , <b>2014</b> , 225, 57-65	4.4	44	
451	Toward a magnetoresistive chip cytometer: Integrated detection of magnetic beads flowing at cm/s velocities in microfluidic channels. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 034104	3.4	44	
450	Resonant tunneling through electronic trapping states in thin MgO magnetic junctions. <i>Physical Review Letters</i> , <b>2011</b> , 106, 196601	7.4	43	
449	Spin dependent tunnel junctions for memory and read-head applications. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 2796-2801	2	43	
448	Spin valve sensors with synthetic free and pinned layers. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 5744-5746	5 2.5	43	
447	Quantitative biomolecular sensing station based on magnetoresistive patterned arrays. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 35, 206-212	11.8	42	
446	Exchange enhancement and thermal anneal in Mn76Ir24 bottom-pinned spin valves. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 6904-6906	2.5	42	

445	Electrode roughness and interfacial mixing effects on the tunnel junction thermal stability. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 6650-6652	2.5	42
444	Technological advances in bovine mastitis diagnosis: an overview. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>2015</b> , 27, 665-72	1.5	41
443	Seebeck rectification enabled by intrinsic thermoelectrical coupling in magnetic tunneling junctions. <i>Physical Review Letters</i> , <b>2012</b> , 109, 037206	7.4	41
442	Fast and efficient microfluidic cell filter for isolation of circulating tumor cells from unprocessed whole blood of colorectal cancer patients. <i>Scientific Reports</i> , <b>2019</b> , 9, 8032	4.9	40
441	MgO based picotesla field sensors. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07E931	2.5	40
440	Exploring the Potential of Starch/Polycaprolactone Aligned Magnetic Responsive Scaffolds for Tendon Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 213-22	10.1	40
439	Large Area and Low Aspect Ratio Linear Magnetic Tunnel Junctions With a Soft-Pinned Sensing Layer. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 3719-3722	2	39
438	Universal and scaled relaxation of interacting magnetic nanoparticles. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	39
437	High thermal stability tunnel junctions. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 6058-6060	2.5	39
436	Lab-on-Chip Devices: Gaining Ground Losing Size. ACS Nano, 2017, 11, 10659-10664	16.7	38
435	Magneto-mechanical actuation of magnetic responsive fibrous scaffolds boosts tenogenesis of human adipose stem cells. <i>Nanoscale</i> , <b>2019</b> , 11, 18255-18271	7.7	38
434	Hybrid magnetoresistivehicroelectromechanical devices for static field modulation and sensor 1fl noise cancellation. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07E924	2.5	38
433	40% tunneling magnetoresistance after anneal at 380 °C for tunnel junctions with ironbxide interface layers. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 6665-6667	2.5	38
432	Phonons in YBa2Cu3O7- delta -type materials. <i>Physical Review B</i> , <b>1988</b> , 37, 5171-5174	3.3	38
431	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> , <b>2018</b> , 100, 259-265	11.8	36
430	Low-Frequency Noise in MgO Magnetic Tunnel Junctions: HoogeN Parameter Dependence on Bias Voltage. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2569-2572	2	36
429	Spin-valve sensors exchange-biased by ultrathin TbCo films. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 493-495	3.4	36
428	Performance enhanced UV/vis spectroscopic microfluidic sensor for ascorbic acid quantification in human blood. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 85, 568-572	11.8	36

# (2017-2009)

427	Field detection in MgO magnetic tunnel junctions with superparamagnetic free layer and magnetic flux concentrators. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07E722	2.5	35	
426	Rapid DNA hybridization based on ac field focusing of magnetically labeled target DNA. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 013901	3.4	35	
425	Coherent suppression of magnetic ringing in microscopic spin valve elements. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3781-3783	3.4	35	
424	Spin-dependent tunnel junctions with ZrOx barriers. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 4387-4389	3.4	35	
423	Low-resistance spin-dependent tunnel junctions with ZrAlOx barriers. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 4553-4555	3.4	35	
422	Detection of cystic fibrosis related DNA targets using AC field focusing of magnetic labels and spin-valve sensors. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 4140-4142	2	33	
421	Synthetic ferrimagnet free layer tunnel junction for magnetic random access memories. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 7700	2.5	33	
420	Influence of Ta antidiffusion barriers on the thermal stability of tunnel junctions. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3792-3794	3.4	33	
419	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> , <b>2016</b> , 8, 119-128	3 <sup>3.2</sup>	32	
418	OPTIMIZATION AND INTEGRATION OF MAGNETORESISTIVE SENSORS. <i>Spin</i> , <b>2011</b> , 01, 71-91	1.3	32	
417	Detection of 130nm magnetic particles by a portable electronic platform using spin valve and magnetic tunnel junction sensors. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07A310	2.5	32	
416	Low-current blocking temperature writing of double barrier magnetic random access memory cells. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 945-947	3.4	32	
415	Resistance decrease in spin tunnel junctions by control of natural oxidation conditions. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2219-2221	3.4	32	
414	Tunneling magnetoresistance and current distribution effect in spin-dependent tunnel junctions. Journal of Applied Physics, <b>1998</b> , 83, 6694-6696	2.5	32	
413	Spin transfer torque driven higher-order propagating spin waves in nano-contact magnetic tunnel junctions. <i>Nature Communications</i> , <b>2018</b> , 9, 4374	17.4	32	
412	Graphene field-effect transistor array with integrated electrolytic gates scaled to 200 mm. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 085302	1.8	31	
411	Biosensors for On-Farm Diagnosis of Mastitis. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 186	5.8	31	
410	In Vivo Magnetic Recording of Neuronal Activity. <i>Neuron</i> , <b>2017</b> , 95, 1283-1291.e4	13.9	31	

409	Training effect in specular spin valves. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	31
408	Transport mechanisms in Y1Ba2Cu3O6+ delta superconductors in the metallic and the semiconducting regimes. <i>Physical Review B</i> , <b>1988</b> , 37, 3657-3659	3.3	31
407	Magnetic field sensor with voltage-tunable sensing properties. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 19240	)3.4	30
406	Superferromagnetic domain state of a discontinuous metal insulator multilayer. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	30
405	Tuning of MgO barrier magnetic tunnel junction bias current for picotesla magnetic field detection. Journal of Applied Physics, <b>2006</b> , 99, 08K706	2.5	29
404	Characterization of CoFeB electrodes for tunnel junctions. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10C916	2.5	29
403	Electromigration in thin tunnel junctions with ferromagnetic/nonmagnetic electrodes: Nanoconstrictions, local heating, and direct and wind forces. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	29
402	Room temperature direct detection of low frequency magnetic fields in the 100 pT/Hz0.5 range using large arrays of magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17E501	2.5	28
401	Magnetic Tunnel Junctions Based on Out-of-Plane Anisotropy Free and In-Plane Pinned Layer Structures for Magnetic Field Sensors. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 3840-3842	2	28
400	Toward a system to measure action potential on mice brain slices with local magnetoresistive probes. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07B308	2.5	28
399	Electroforming, magnetic and resistive switching in MgO-based tunnel junctions. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 105407	3	28
398	Current-induced switching in low resistance magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 8385-8387	2.5	28
397	Spin-valve structures exchange biased with a-Tb0.23Co0.77 layers. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 6480-6482	2.5	28
396	MgO-based magnetic tunnel junction sensors array for non-destructive testing applications. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17E513	2.5	27
395	Exchange-biased planar Hall effect sensor optimized for biosensor applications. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07A302	2.5	27
394	Field detection in single and double barrier MgO magnetic tunnel junction sensors. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07E922	2.5	27
393	Diode/magnetic tunnel junction cell for fully scalable matrix-based biochip. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08B307	2.5	27
392	Giant magnetoresistive sensors for rotational speed control. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 5459-	5 <u>46</u> 1	27

### (2008-2016)

391	Hybrid Integration of Magnetoresistive Sensors with MEMS as a Strategy to Detect Ultra-Low Magnetic Fields. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	27	
390	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	
389	Cole-Cole Analysis of the Superspin Glass System Co 80 Fe 20 /Al 2 O 3. <i>Phase Transitions</i> , <b>2003</b> , 76, 367	-375	26	
388	Dynamic heating in submicron size magnetic tunnel junctions with exchange biased storage layer. Journal of Applied Physics, <b>2005</b> , 97, 10P501	2.5	26	
387	Annealing effect of magnetic tunnel junctions with one FeOx layer inserted at the Al2O3/CoFe interface. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 2911-2913	3.4	26	
386	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> , <b>1999</b> , 35, 2895-2897	2	26	
385	Eddy currents testing probe with magneto-resistive sensors and differential measurement. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 212, 58-67	3.9	25	
384	Towards picoTesla Magnetic Field Detection Using a GMR-MEMS Hybrid Device. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 4115-4118	2	25	
383	Integration of TMR Sensors in Silicon Microneedles for Magnetic Measurements of Neurons. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 3512-3515	2	24	
382	Strategies for pTesla Field Detection Using Magnetoresistive Sensors With a Soft Pinned Sensing Layer. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	24	
381	Polyacrylic acid coated and non-coated iron oxide nanoparticles are not genotoxic to human T lymphocytes. <i>Toxicology Letters</i> , <b>2015</b> , 234, 67-73	4.4	24	
380	Field Detection in Spin Valve Sensors Using CoFeB/Ru Synthetic-Antiferromagnetic Multilayers as Magnetic Flux Concentrators. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 3847-3850	2	24	
379	Resistive switching in nanostructured thin films. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 202107	3.4	24	
378	Semi-Quantitative Method for Streptococci Magnetic Detection in Raw Milk. <i>Biosensors</i> , <b>2016</b> , 6, 19	5.9	24	
377	Exploring sialyl-Tn expression in microfluidic-isolated circulating tumour cells: A novel biomarker and an analytical tool for precision oncology applications. <i>New Biotechnology</i> , <b>2019</b> , 49, 77-87	6.4	24	
376	Influence of the thermal interface resistance on the thermovoltage of a magnetic tunnel junction. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	23	
375	Versatile, high sensitivity, and automatized angular dependent vectorial Kerr magnetometer for the analysis of nanostructured materials. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 043902	1.7	23	
374	1/f Magnetic Noise Dependence on Free Layer Thickness in Hysteresis Free MgO Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2551-2553	2	23	

373	Magnetoresistive DNA chips based on ac field focusing of magnetic labels. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08P105	2.5	23
372	Integrated giant magnetoresistance bridge sensors with transverse permanent magnet biasing.  Journal of Applied Physics, <b>2000</b> , 87, 5353-5355	2.5	23
371	Influence of ion beam milling parameters on MRAM switching. <i>IEEE Transactions on Magnetics</i> , <b>2001</b> , 37, 1973-1975	2	23
370	On the temperature dependence of the magnetoresistance of ferromagnetic alloys. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 5459-5461	2.5	23
369	High-Resolution Nondestructive Test Probes Based on Magnetoresistive Sensors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 7326-7337	8.9	23
368	Magnetic field sensing characteristics of MgO based tunneling magnetoresistance devices with Co40Fe40B20 and Co60Fe20B20 electrodes. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 202, 64-68	3.9	22
367	Magnetoresistive Detection of Magnetic Beads Flowing at High Speed in Microfluidic Channels. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 4873-4876	2	22
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365	A New Hand-Held Microsystem Architecture for Biological Analysis. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2006</b> , 53, 2384-2395		22
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230	Engineering magnetically responsive tropoelastin spongy-like hydrogels for soft tissue regeneration. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 1066-1075	7.3	9

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219	Assessment of conduction mechanisms through MgO ultrathin barriers in CoFeB/MgO/CoFeB perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 102402	3.4	8
218	Nanoscale true random bit generator based on magnetic state transitions in magnetic tunnel junctions. <i>Scientific Reports</i> , <b>2019</b> , 9, 15661	4.9	8
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