

Paulo Freitas

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7188377/paulo-freitas-publications-by-year.pdf>

Version: 2024-04-27

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.

516
papers

11,820
citations

54
h-index

84
g-index

535
ext. papers

12,905
ext. citations

3.3
avg, IF

6.11
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 516 | A pump-free microfluidic device for fast magnetic labeling of ischemic stroke biomarkers.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 414, 2571 | 4.4 | 2 |
| 515 | Electronic Platforms and Signal Processing for Magnetoresistive-Based Biochips 2022 , 1201-1239 | | |
| 514 | Detecting Magnetic Ink Barcodes with Handheld Magnetoresistive Sensors. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1 | 2 | |
| 513 | 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 |
| 512 | 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 |
| 511 | Seebeck effect and Joule heating in CoFeB/MgO/CoFeB-based perpendicular magnetic tunnel junctions with low resistance area product. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 265302 | 3 | |
| 510 | Evolution in Automatized Detection of Cells: Advances in Magnetic Microcytometers for Cancer Cells. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 413-444 | 3.6 | |
| 509 | The Challenges of Developing Biosensors for Clinical Assessment: A Review. <i>Chemosensors</i> , 2021 , 9, 2994 | 4 | 4 |
| 508 | 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 |
| 507 | Phase variation in the locked state of mutually synchronized spin torque nano-oscillators. <i>Applied Physics Letters</i> , 2021 , 118, 172406 | 3.4 | 1 |
| 506 | Bias Voltage Dependence of Sensing Characteristics in Tunneling Magnetoresistance Sensors. <i>Sensors</i> , 2021 , 21, | 3.8 | 2 |
| 505 | Electrical characterisation of higher order spin wave modes in vortex-based magnetic tunnel junctions. <i>Communications Physics</i> , 2021 , 4, | 5.4 | 3 |
| 504 | Silane-based coating charged with TiO2 NPs for dental implant applications. <i>Surface and Coatings Technology</i> , 2021 , 413, 127066 | 4.4 | 5 |
| 503 | 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 |
| 502 | Two-dimensional arrays of vertically packed spin-valves with picoTesla sensitivity at room temperature. <i>Scientific Reports</i> , 2021 , 11, 215 | 4.9 | 2 |
| 501 | 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 |
| 500 | Non-volatile artificial synapse based on a vortex nano-oscillator. <i>Scientific Reports</i> , 2021 , 11, 16094 | 4.9 | 1 |

| | | | |
|-----|--|------|----|
| 499 | Using integrated current lines to control the operation point of highly sensitive magnetoresistive sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 537, 168152 | 2.8 | |
| 498 | Non-invasive molecular assessment of human embryo development and implantation potential. <i>Biosensors and Bioelectronics</i> , 2020 , 157, 112144 | 11.8 | 4 |
| 497 | Effects of magnetic monopoles charge on the cracking reversal processes in artificial square ices. <i>Scientific Reports</i> , 2020 , 10, 9959 | 4.9 | 2 |
| 496 | Digital and analogue modulation and demodulation scheme using vortex-based spin torque nano-oscillators. <i>Scientific Reports</i> , 2020 , 10, 11181 | 4.9 | 7 |
| 495 | Wideband High-Resolution Frequency-to-Resistance Converter Based on Nonhomogeneous Magnetic-State Transitions. <i>Physical Review Applied</i> , 2020 , 13, | 4.3 | 4 |
| 494 | Spintronic Sensors Based on Magnetic Tunnel Junctions for Wireless Eye Movement Gesture Control. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020 , 14, 1299-1310 | 5.1 | 4 |
| 493 | Integrated Pico-Tesla Resolution Magnetoresistive Sensors for Miniaturised Magnetomyography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 3415-3419 | 0.9 | 3 |
| 492 | 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 |
| 491 | Phenotypic Analysis of Urothelial Exfoliated Cells in Bladder Cancer via Microfluidic Immunoassays: Sialyl-Tn as a Novel Biomarker in Liquid Biopsies. <i>Frontiers in Oncology</i> , 2020 , 10, 1774 | 5.3 | 2 |
| 490 | 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 |
| 489 | Magneto-mechanical actuation of magnetic responsive fibrous scaffolds boosts tenogenesis of human adipose stem cells. <i>Nanoscale</i> , 2019 , 11, 18255-18271 | 7.7 | 38 |
| 488 | Effectiveness and Safety of a Nontargeted Boost for a CXCR4-Targeted Magnetic Hyperthermia Treatment of Cancer Cells. <i>ACS Omega</i> , 2019 , 4, 1931-1940 | 3.9 | 7 |
| 487 | 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 |
| 486 | Fast and efficient microfluidic cell filter for isolation of circulating tumor cells from unprocessed whole blood of colorectal cancer patients. <i>Scientific Reports</i> , 2019 , 9, 8032 | 4.9 | 40 |
| 485 | Tuning magnetic monopole population and mobility in unidirectional array of nanomagnets as a function of lattice parameters. <i>Applied Physics Letters</i> , 2019 , 114, 142401 | 3.4 | 4 |
| 484 | Spin torque nano-oscillator driven by combined spin injection from tunneling and spin Hall current. <i>Communications Physics</i> , 2019 , 2, | 5.4 | 16 |
| 483 | Electrochemical Immunosensor for TNF α -Mediated Inflammatory Disease Screening. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 2676-2682 | 5.7 | 10 |
| 482 | 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 |

| | | | |
|-----|---|------|----|
| 481 | 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 |
| 480 | Functionalization of single-layer graphene for immunoassays. <i>Applied Surface Science</i> , 2019 , 480, 709-716.7 | | 21 |
| 479 | . <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-30 | 2 | 75 |
| 478 | Reconfigurable Spintronics Wheatstone Bridge Sensors With Offset Voltage Compensation at Wafer Level. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5 | 2 | 4 |
| 477 | Portable sensing system based on electrochemical impedance spectroscopy for the simultaneous quantification of free and total microcystin-LR in freshwaters. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111550 | 11.8 | 17 |
| 476 | Biosensors for On-Farm Diagnosis of Mastitis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 186 | 5.8 | 31 |
| 475 | Magnetodynamics in orthogonal nanocontact spin-torque nano-oscillators based on magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2019 , 115, 152402 | 3.4 | 6 |
| 474 | Nanoscale true random bit generator based on magnetic state transitions in magnetic tunnel junctions. <i>Scientific Reports</i> , 2019 , 9, 15661 | 4.9 | 8 |
| 473 | Manipulation of Magnetic Beads with Thin Film Microelectromagnet Traps. <i>Micromachines</i> , 2019 , 10, | 3.3 | 3 |
| 472 | Go with the flow: advances and trends in magnetic flow cytometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1839-1862 | 4.4 | 15 |
| 471 | High-Resolution Nondestructive Test Probes Based on Magnetoresistive Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7326-7337 | 8.9 | 23 |
| 470 | 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 |
| 469 | Exploring sialyl-Tn expression in microfluidic-isolated circulating tumour cells: A novel biomarker and an analytical tool for precision oncology applications. <i>New Biotechnology</i> , 2019 , 49, 77-87 | 6.4 | 24 |
| 468 | Combining CXCR4-targeted and nontargeted nanoparticles for effective unassisted in vitro magnetic hyperthermia. <i>Biointerphases</i> , 2018 , 13, 011005 | 1.8 | 7 |
| 467 | Engineering magnetically responsive tropoelastin spongy-like hydrogels for soft tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1066-1075 | 7.3 | 9 |
| 466 | MnNi-based spin valve sensors combining high thermal stability, small footprint and pTesla detectivities. <i>AIP Advances</i> , 2018 , 8, 056644 | 1.5 | 2 |
| 465 | Barrier breakdown mechanism in nano-scale perpendicular magnetic tunnel junctions with ultrathin MgO barrier. <i>AIP Advances</i> , 2018 , 8, 055908 | 1.5 | 7 |
| 464 | Multifunctional magnetic-responsive hydrogels to engineer tendon-to-bone interface. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 2375-2385 | 6 | 49 |

| | | | |
|-----|--|------|----|
| 463 | 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 |
| 462 | 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 |
| 461 | Enhanced magnetic microcytometer with 3D flow focusing for cell enumeration. <i>Lab on A Chip</i> , 2018 , 18, 2593-2603 | 7.2 | 7 |
| 460 | Hybrid GMR Sensor Detecting 950 pT/sqrt(Hz) at 1 Hz and Room Temperature. <i>Sensors</i> , 2018 , 18, | 3.8 | 21 |
| 459 | Influence of MgO Tunnel Barrier Thickness on the Output Power of Three-Terminal Spin Hall Nano-Oscillators. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4 | 2 | 1 |
| 458 | . <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5 | 2 | 4 |
| 457 | 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 |
| 456 | 3D Magnetic Field Reconstruction Methodology Based on a Scanning Magnetoresistive Probe. <i>Sensors</i> , 2018 , 18, | 3.8 | 2 |
| 455 | Reading magnetic ink patterns with magnetoresistive sensors. <i>AIP Advances</i> , 2018 , 8, 056633 | 1.5 | 4 |
| 454 | Rapid and specific detection of cell-derived microvesicles using a magnetoresistive biochip. <i>Analyst, The</i> , 2017 , 142, 979-986 | 5 | 10 |
| 453 | Optimization of the buffer surface of CoFeB/MgO/CoFeB-based magnetic tunnel junctions by ion beam milling. <i>Applied Surface Science</i> , 2017 , 424, 58-62 | 6.7 | 8 |
| 452 | Annealing free magnetic tunnel junction sensors. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 165001 | 3 | 9 |
| 451 | Magnetic tunnel junctions with integrated thermometers for magnetothermopower measurements. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 185303 | 1.8 | 13 |
| 450 | Bipolar resistive switching in Si/Ag nanostructures. <i>Applied Surface Science</i> , 2017 , 424, 122-126 | 6.7 | 10 |
| 449 | Quantitative histochemistry for macrophage biodistribution on mice liver and spleen after the administration of a pharmacological-relevant dose of polyacrylic acid-coated iron oxide nanoparticles. <i>Nanotoxicology</i> , 2017 , 11, 256-266 | 5.3 | 13 |
| 448 | Microneedles with integrated magnetoresistive sensors: A precision tool in biomedical instrumentation 2017 , | | 1 |
| 447 | On-Chip Magnetic Nanoparticle Manipulation and Trapping for Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6 | 2 | 9 |
| 446 | Improved Efficiency of Tapered Magnetic Flux Concentrators With Double-Layer Architecture. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5 | 2 | 13 |

| | | | |
|-----|---|------|----|
| 445 | Spintronic Biochips 2017 , 165-200 | | 2 |
| 444 | Voltage-polarity dependent multi-mode resistive switching on sputtered MgO nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10898-10904 | 3.6 | 10 |
| 443 | Challenges and trends in magnetic sensor integration with microfluidics for biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 213001 | 3 | 62 |
| 442 | Toward pTesla Detectivities Maintaining Minimum Sensor Footprint With Vertical Packaging of Spin Valves. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5 | 2 | |
| 441 | Semi-quantitative method for Staphylococci magnetic detection in raw milk. <i>Journal of Dairy Research</i> , 2017 , 84, 80-88 | 1.6 | 7 |
| 440 | . <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5 | 2 | 13 |
| 439 | Lab-on-Chip Devices: Gaining Ground Losing Size. <i>ACS Nano</i> , 2017 , 11, 10659-10664 | 16.7 | 38 |
| 438 | 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 |
| 437 | In Vivo Magnetic Recording of Neuronal Activity. <i>Neuron</i> , 2017 , 95, 1283-1291.e4 | 13.9 | 31 |
| 436 | 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 |
| 435 | 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 |
| 434 | An Interplay between Matrix Anisotropy and Actomyosin Contractility Regulates 3D-Directed Cell Migration. <i>Advanced Functional Materials</i> , 2017 , 27, 1702322 | 15.6 | 14 |
| 433 | High power and low critical current density spin transfer torque nano-oscillators using MgO barriers with intermediate thickness. <i>Scientific Reports</i> , 2017 , 7, 7237 | 4.9 | 18 |
| 432 | A tunnel magnetoresistive effect wattmeters-based wireless sensors network. <i>Sensors and Actuators A: Physical</i> , 2017 , 264, 224-233 | 3.9 | 1 |
| 431 | 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 |
| 430 | 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 |
| 429 | Influence of the thermal interface resistance on the thermovoltage of a magnetic tunnel junction. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 23 |
| 428 | Flexible Magnetoresistive Sensors Designed for Conformal Integration. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4 | 2 | 4 |

| | | | |
|-----|--|------|-----|
| 427 | Numerical Evaluation of Bacterial Cell Concentration by Magnetoresistive Cytometry. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4 | 2 | 2 |
| 426 | Electronic Energy Meter Based on a Tunnel Magnetoresistive Effect (TMR) Current Sensor. <i>Materials</i> , 2017 , 10, | 3.5 | 9 |
| 425 | Electronic Platforms and Signal Processing for Magnetoresistive-Based Biochips 2017 , 1-39 | | |
| 424 | Spintronic Sensors. <i>Proceedings of the IEEE</i> , 2016 , 104, 1894-1918 | 14.3 | 69 |
| 423 | Graphene field-effect transistor array with integrated electrolytic gates scaled to 200 nm. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 085302 | 1.8 | 31 |
| 422 | Magnetoresistive nanosensors: controlling magnetism at the nanoscale. <i>Nanotechnology</i> , 2016 , 27, 045501 | 3.1 | 15 |
| 421 | 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 |
| 420 | 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 |
| 419 | Femtosecond control of electric currents in metallic ferromagnetic heterostructures. <i>Nature Nanotechnology</i> , 2016 , 11, 455-8 | 28.7 | 137 |
| 418 | 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 |
| 417 | Hybrid Integration of Magnetoresistive Sensors with MEMS as a Strategy to Detect Ultra-Low Magnetic Fields. <i>Micromachines</i> , 2016 , 7, | 3.3 | 27 |
| 416 | 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 |
| 415 | Semi-Quantitative Method for Streptococci Magnetic Detection in Raw Milk. <i>Biosensors</i> , 2016 , 6, 19 | 5.9 | 24 |
| 414 | Integration of GMR Sensors with Different Technologies. <i>Sensors</i> , 2016 , 16, | 3.8 | 51 |
| 413 | Sensitivity and 3 dB Bandwidth in Single and Series-Connected Tunneling Magnetoresistive Sensors. <i>Sensors</i> , 2016 , 16, | 3.8 | 4 |
| 412 | Biodistribution of polyacrylic acid-coated iron oxide nanoparticles is associated with proinflammatory activation and liver toxicity. <i>Journal of Applied Toxicology</i> , 2016 , 36, 1321-31 | 4.1 | 20 |
| 411 | Exploring the Potential of Starch/Polycaprolactone Aligned Magnetic Responsive Scaffolds for Tendon Regeneration. <i>Advanced Healthcare Materials</i> , 2016 , 5, 213-22 | 10.1 | 40 |
| 410 | Enhancing the injection locking range of spin torque oscillators through mutual coupling. <i>Applied Physics Letters</i> , 2016 , 109, 252404 | 3.4 | 5 |

| | | | |
|-----|---|------|----|
| 409 | 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 |
| 408 | 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 |
| 407 | High immunity wafer-level measurement of MHz current. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 94, 474-479 | 4.6 | 2 |
| 406 | Tunneling magnetoresistance sensors for high fidelity current waveforms monitoring. <i>Sensors and Actuators A: Physical</i> , 2016 , 251, 142-147 | 3.9 | 7 |
| 405 | Terahertz dynamics of spins and charges in CoFe/Al ₂ O ₃ multilayers. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 7 |
| 404 | 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 |
| 403 | Polyacrylic acid-coated and non-coated iron oxide nanoparticles induce cytokine activation in human blood cells through TAK1, p38 MAPK and JNK pro-inflammatory pathways. <i>Archives of Toxicology</i> , 2015 , 89, 1759-69 | 5.8 | 21 |
| 402 | 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 |
| 401 | Technological advances in bovine mastitis diagnosis: an overview. <i>Journal of Veterinary Diagnostic Investigation</i> , 2015 , 27, 665-72 | 1.5 | 41 |
| 400 | 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 |
| 399 | Bending Effect on Magnetoresistive Silicon Probes. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 3 |
| 398 | 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 |
| 397 | Integration of magnetoresistive sensors with atomic force microscopy cantilevers for scanning magnetoresistance microscopy applications 2015 , | | 1 |
| 396 | 2. New techniques in environment monitoring 2015 , 35-98 | | |
| 395 | Linearization strategies for high sensitivity magnetoresistive sensors. <i>EPJ Applied Physics</i> , 2015 , 72, 106011 | 11 | 58 |
| 394 | 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 |
| 393 | Ultra-Compact 100 μ m ² Footprint Hybrid Device with Spin-Valve Nanosensors. <i>Sensors</i> , 2015 , 15, 30311-8 | 3.8 | 12 |
| 392 | Magnetic Counter for Group B Streptococci Detection in Milk. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 4 |

| | | | |
|-----|---|------|----|
| 391 | Terahertz Response and Ultrafast Laser-Induced Dynamics of Spins and Charges in CoFe/Al ₂ O ₃ Multilayers. <i>Springer Proceedings in Physics</i> , 2015 , 261-263 | 0.2 | |
| 390 | 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 |
| 389 | Impact of MgO Thickness on the Performance of Spin-Transfer Torque Nano-Oscillators. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4 | 2 | 2 |
| 388 | 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 |
| 387 | 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 |
| 386 | Polyacrylic acid coated and non-coated iron oxide nanoparticles are not genotoxic to human T lymphocytes. <i>Toxicology Letters</i> , 2015 , 234, 67-73 | 4.4 | 24 |
| 385 | A Neuronal Signal Detector for Biologically Generated Magnetic Fields. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 1171-1180 | 5.2 | 13 |
| 384 | 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 |
| 383 | Interaction of polyacrylic acid coated and non-coated iron oxide nanoparticles with human neutrophils. <i>Toxicology Letters</i> , 2014 , 225, 57-65 | 4.4 | 44 |
| 382 | Ordered arrays of tilted silicon nanobelts with enhanced solar hydrogen evolution performance. <i>Nanoscale</i> , 2014 , 6, 2097-101 | 7.7 | 8 |
| 381 | 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> , 2014 , 115, 17E501 | 2.5 | 28 |
| 380 | Effect of annealing temperature on formation of superparamagnetism in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Applied Surface Science</i> , 2014 , 314, 443-446 | 6.7 | 11 |
| 379 | 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 |
| 378 | A bacteriophage detection tool for viability assessment of Salmonella cells. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 239-46 | 11.8 | 68 |
| 377 | Monolithic integration of Giant Magnetoresistance (GMR) devices onto standard processed CMOS dies. <i>Microelectronics Journal</i> , 2014 , 45, 702-707 | 1.8 | 13 |
| 376 | Linear nanometric tunnel junction sensors with exchange pinned sensing layer. <i>Journal of Applied Physics</i> , 2014 , 115, 17E526 | 2.5 | 13 |
| 375 | 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 |
| 374 | Magneto-transport behavior of double exchange magnetic tunnel junction sensors 2014 , | | 1 |

| | | | |
|-----|---|-----|----|
| 373 | 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 |
| 372 | Lab-on-chip cytometry based on magnetoresistive sensors for bacteria detection in milk. <i>Sensors</i> , 2014 , 14, 15496-524 | 3.8 | 49 |
| 371 | MgO-based magnetic tunnel junction sensors array for non-destructive testing applications. <i>Journal of Applied Physics</i> , 2014 , 115, 17E513 | 2.5 | 27 |
| 370 | An in-depth noise model for giant magnetoresistance current sensors for circuit design and complementary metal-oxide-semiconductor integration. <i>Journal of Applied Physics</i> , 2014 , 115, 17E514 | 2.5 | 1 |
| 369 | Observation of spin-dependent quantum well resonant tunneling in textured CoFeB layers. <i>Applied Physics Letters</i> , 2014 , 104, 112414 | 3.4 | 7 |
| 368 | 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 |
| 367 | 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 |
| 366 | 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 |
| 365 | 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 |
| 364 | Customized Design of Magnetic Beads for Dynamic Magnetoresistive Cytometry. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4 | 2 | 11 |
| 363 | 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 |
| 362 | 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 |
| 361 | Magnetic tunnel junction sensors with pTesla sensitivity. <i>Microsystem Technologies</i> , 2014 , 20, 793-802 | 1.7 | 53 |
| 360 | 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 |
| 359 | CMOS instrumentation system for matrix-based magnetoresistive biosensors 2013 , | | 2 |
| 358 | 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 |
| 357 | Integration of TMR Sensors in Silicon Microneedles for Magnetic Measurements of Neurons. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3512-3515 | 2 | 24 |
| 356 | MgO Magnetic Tunnel Junction Electrical Current Sensor With Integrated Ru Thermal Sensor. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3866-3869 | 2 | 11 |

| | | | |
|-----|--|------|----|
| 355 | 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 |
| 354 | Magnetic field sensing characteristics of MgO based tunneling magnetoresistance devices with Co ₄₀ Fe ₄₀ B ₂₀ and Co ₆₀ Fe ₂₀ B ₂₀ electrodes. <i>Sensors and Actuators A: Physical</i> , 2013 , 202, 64-68 | 3.9 | 22 |
| 353 | NiFe/CoFe/Cu/CoFe/MnIr spin valves studied by ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2013 , 113, 17D713 | 2.5 | 6 |
| 352 | Giant intrinsic thermomagnetic effects in thin MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2013 , 102, 212413 | 3.4 | 19 |
| 351 | Magnetic Tunnel Junction (MTJ) sensors for integrated circuits (IC) electric current measurement 2013 , | | 2 |
| 350 | An instrumentation system based on magnetoresistive sensors for neuronal signal detection 2013 , | | 2 |
| 349 | 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 |
| 348 | Fractional modeling of the AC large-signal frequency response in magnetoresistive current sensors. <i>Sensors</i> , 2013 , 13, 17516-33 | 3.8 | 9 |
| 347 | Magnetoresistive Sensors for Surface Scanning. <i>Smart Sensors, Measurement and Instrumentation</i> , 2013 , 275-299 | 0.3 | 3 |
| 346 | Magnetic tunnel junction sensors with pTesla sensitivity for biomedical imaging 2013 , | | 3 |
| 345 | 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 |
| 344 | 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 |
| 343 | Quasi-digital conversion for resistive devices: Application in GMR-based IC current sensors 2013 , | | 2 |
| 342 | Quantitative biomolecular sensing station based on magnetoresistive patterned arrays. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 206-212 | 11.8 | 42 |
| 341 | Electrical Characterization of a Magnetic Tunnel Junction Current Sensor for Industrial Applications. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2823-2826 | 2 | 18 |
| 340 | Magnetization Drop at High Temperature in Oleic Acid-Coated Magnetite Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3307-3310 | 2 | 9 |
| 339 | 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 |
| 338 | 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 |

| | | | |
|-----|---|-----|----|
| 337 | GMR sensors and magnetic nanoparticles for immuno-chromatographic assays. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3495-3498 | 2.8 | 60 |
| 336 | Spintronic platforms for biomedical applications. <i>Lab on A Chip</i> , 2012 , 12, 546-57 | 7.2 | 96 |
| 335 | Integration of Magnetoresistive Biochips on a CMOS Circuit. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3784-3787 | 2 | 21 |
| 334 | Magnetic field sensor with voltage-tunable sensing properties. <i>Applied Physics Letters</i> , 2012 , 101, 192403-4 | 3.4 | 30 |
| 333 | Towards picoTesla Magnetic Field Detection Using a GMR-MEMS Hybrid Device. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4115-4118 | 2 | 25 |
| 332 | 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 |
| 331 | Electrical ammeter based on spin-valve sensor. <i>Review of Scientific Instruments</i> , 2012 , 83, 105113 | 1.7 | 4 |
| 330 | Waterborne Pathogen Detection Using a Magnetoresistive Immuno-Chip. <i>Springer Protocols</i> , 2012 , 263-288 | 28 | 5 |
| 329 | Optimization of exposure parameters for lift-off process of sub-100 features using a negative tone electron beam resist 2012 , | | 6 |
| 328 | 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> , 2012 , 48, 3840-3842 | 2 | 28 |
| 327 | 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 |
| 326 | 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 |
| 325 | Electrode band structure effects in thin MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2012 , 100, 072406 | 3.4 | 8 |
| 324 | Seebeck rectification enabled by intrinsic thermoelectrical coupling in magnetic tunneling junctions. <i>Physical Review Letters</i> , 2012 , 109, 037206 | 7.4 | 41 |
| 323 | 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 |
| 322 | 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 |
| 321 | Angular dependence of exchange bias in Mn80Ir20/Co60Fe20B20 bilayers. <i>Journal of Applied Physics</i> , 2011 , 109, 07D704 | 2.5 | 3 |
| 320 | Three dimensional magnetic flux concentrators with improved efficiency for magnetoresistive sensors. <i>Journal of Applied Physics</i> , 2011 , 109, 07E521 | 2.5 | 21 |

| | | | |
|-----|---|-----|----|
| 319 | 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 |
| 318 | 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 |
| 317 | Magnetoresistive chip cytometer. <i>Lab on A Chip</i> , 2011 , 11, 2255-61 | 7.2 | 54 |
| 316 | 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 |
| 315 | Toward a system to measure action potential on mice brain slices with local magnetoresistive probes. <i>Journal of Applied Physics</i> , 2011 , 109, 07B308 | 2.5 | 28 |
| 314 | Hybrid antenna-magnetoresistive sensor for radio frequency field detection. <i>Journal of Applied Physics</i> , 2011 , 109, 07E505 | 2.5 | 3 |
| 313 | 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 |
| 312 | 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 |
| 311 | OPTIMIZATION AND INTEGRATION OF MAGNETORESISTIVE SENSORS. <i>Spin</i> , 2011 , 01, 71-91 | 1.3 | 32 |
| 310 | Spintronic chip cytometer. <i>Journal of Applied Physics</i> , 2011 , 109, 07B311 | 2.5 | 3 |
| 309 | Resonant tunneling through electronic trapping states in thin MgO magnetic junctions. <i>Physical Review Letters</i> , 2011 , 106, 196601 | 7.4 | 43 |
| 308 | 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 |
| 307 | Self-powered, hybrid antenna-magnetoresistive sensor for magnetic field detection. <i>Applied Physics Letters</i> , 2011 , 98, 103503 | 3.4 | 9 |
| 306 | 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 |
| 305 | 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 |
| 304 | Probing atomic rearrangement events in resistive switching nanostructures. <i>Applied Physics Letters</i> , 2010 , 96, 043505 | 3.4 | 8 |
| 303 | Tunneling processes in thin MgO magnetic junctions. <i>Applied Physics Letters</i> , 2010 , 96, 262506 | 3.4 | 14 |
| 302 | Wheatstone bridge sensor composed of linear MgO magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2010 , 107, 09E712 | 2.5 | 18 |

| | | | |
|-----|---|-----|----|
| 301 | 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 |
| 300 | Stability studies of exchange bias field of Mn ₈₀ Ir ₂₀ /Co ₆₀ Fe ₂₀ B ₂₀ by network analyzer ferromagnetic resonance. <i>Applied Physics Letters</i> , 2010 , 97, 132502 | 3-4 | 7 |
| 299 | Second-Stage Actuation for Hard Disc Drives Through MEMS Technology. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 782-789 | 2 | 3 |
| 298 | Magnetic field strength and orientation effects on Co-Fe discontinuous multilayers close to percolation. <i>Physical Review B</i> , 2010 , 82, | 3-3 | 6 |
| 297 | 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 |
| 296 | 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 |
| 295 | Influence of pinholes on MgO-tunnel junction barrier parameters obtained from current-voltage characteristics. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2731-4 | 1-3 | 4 |
| 294 | Measuring and Extraction of Biological Information on New Handheld Biochip-Based Microsystem. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 56-62 | 5-2 | 1 |
| 293 | On the Modeling of New Tunnel Junction Magnetoresistive Biosensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 92-100 | 5-2 | 7 |
| 292 | 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 |
| 291 | 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 |
| 290 | Noise of MgO-based magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1624-1627 | 2.8 | 13 |
| 289 | 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 |
| 288 | Resistive switching in nanostructured thin films. <i>Applied Physics Letters</i> , 2009 , 94, 202107 | 3-4 | 24 |
| 287 | Magnetic and transport properties of diluted granular multilayers. <i>Journal of Applied Physics</i> , 2009 , 106, 113910 | 2.5 | 5 |
| 286 | 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 |
| 285 | 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 |
| 284 | Control of hysteretic behavior in flux concentrators. <i>Applied Physics Letters</i> , 2009 , 94, 073501 | 3-4 | 10 |

| | | | |
|-----|--|------|----|
| 283 | Electroforming, magnetic and resistive switching in MgO-based tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 105407 | 3 | 28 |
| 282 | Structural characterization and magnetic profile of annealed CoFeB/MgO multilayers. <i>Journal of Applied Physics</i> , 2009 , 105, 113911 | 2.5 | 14 |
| 281 | 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 |
| 280 | A portable and autonomous magnetic detection platform for biosensing. <i>Sensors</i> , 2009 , 9, 4119-37 | 3.8 | 60 |
| 279 | 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 |
| 278 | Magneto-resistive Detection of Magnetic Beads Flowing at High Speed in Microfluidic Channels. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4873-4876 | 2 | 22 |
| 277 | Femtomolar limit of detection with a magneto-resistive biochip. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2690-5 | 11.8 | 99 |
| 276 | Temperature effects in exchange-biased planar hall sensors for bioapplications. <i>Sensors and Actuators A: Physical</i> , 2009 , 156, 103-108 | 3.9 | 15 |
| 275 | 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 |
| 274 | On-chip magneto-resistive detection of resonance in microcantilevers. <i>Applied Physics Letters</i> , 2009 , 95, 023502 | 3.4 | 14 |
| 273 | 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 |
| 272 | Soft Thin Films for Flux Concentrators. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 168-171 | 2 | 8 |
| 271 | Correction to "1/f Magnetic Noise Dependence on Free Layer Thickness in Hysteresis Free MgO Magnetic Tunnel Junctions". <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2176-2176 | 2 | |
| 270 | Bead Capture on Magnetic Sensors in a Microfluidic System. <i>IEEE Sensors Journal</i> , 2009 , 9, 682-688 | 4 | 15 |
| 269 | Exchange-biased planar Hall effect sensor optimized for biosensor applications. <i>Journal of Applied Physics</i> , 2008 , 103, 07A302 | 2.5 | 27 |
| 268 | Asymmetric electromigration-driven resistive switching in tunnel junctions. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5272-5274 | 3.9 | 2 |
| 267 | Structural characterization of MnNi and MnPt antiferromagnetic materials for spintronic applications. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5275-5278 | 3.9 | 1 |
| 266 | Ion beam assisted deposition of MgO barriers for magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2008 , 103, 07A905 | 2.5 | 19 |

| | | | |
|-----|---|-----|----|
| 265 | Training effect in specular spin valves. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 31 |
| 264 | 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 |
| 263 | Bead capture and release on a magnetic sensor in a microfluidic system 2008 , | | 2 |
| 262 | Integrated Spintronic Platforms for Biomolecular Recognition Detection. <i>AIP Conference Proceedings</i> , 2008 , | 0 | 4 |
| 261 | High Sensitivity Spin Valve Sensors With AF Coupled Flux Guides. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2472-2474 | 2 | 3 |
| 260 | 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 |
| 259 | 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 |
| 258 | 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 |
| 257 | Transition from Non-Percolated Superferromagnetism to Percolated Ferromagnetism in Granular Metal-Insulator Multilayers 2008 , | | 1 |
| 256 | Magnetization reversal of nanostructured tunnel junctions from prepatterned substrates. <i>Journal of Applied Physics</i> , 2008 , 103, 07C108 | 2.5 | |
| 255 | A Slider With an Integrated Microactuator (SLIM) for Second Stage Actuation in Hard Disc Drives. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3726-3729 | 2 | 8 |
| 254 | Electrical Isolators Based on Tunneling Magnetoresistance Technology. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4011-4014 | 2 | 9 |
| 253 | Linear field amplification for magnetoresistive sensors. <i>Journal of Applied Physics</i> , 2008 , 103, 103914 | 2.5 | 9 |
| 252 | 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 |
| 251 | Ruderman-Kittel-Kasuyama-Yoshida 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 |
| 250 | Pinholes and temperature-dependent transport properties of MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 19 |
| 249 | Field detection in single and double barrier MgO magnetic tunnel junction sensors. <i>Journal of Applied Physics</i> , 2008 , 103, 07E922 | 2.5 | 27 |
| 248 | Hybrid magnetoresistive-microelectromechanical devices for static field modulation and sensor 1/f noise cancellation. <i>Journal of Applied Physics</i> , 2008 , 103, 07E924 | 2.5 | 38 |

| | | | |
|-----|---|-----|-----|
| 247 | Magnetoresistive-based static tester for actuators. <i>Journal of Applied Physics</i> , 2008 , 103, 07F537 | 2.5 | |
| 246 | MgO based picotesla field sensors. <i>Journal of Applied Physics</i> , 2008 , 103, 07E931 | 2.5 | 40 |
| 245 | Magnetic characterization of MnPt/CoFe bilayers using the MOKE technique. <i>Vacuum</i> , 2008 , 82, 1486-1489 | 2.5 | 1 |
| 244 | 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 |
| 243 | Magnetoresistive sensors. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 165221 | 1.8 | 289 |
| 242 | 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 |
| 241 | 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 |
| 240 | 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 |
| 239 | Spin-dependent migration-conduction model for ultra-thin magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e957-e959 | 2.8 | |
| 238 | Temperature dependence of transport properties and exchange field of NiMn based spin valves. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e973-e976 | 2.8 | 2 |
| 237 | 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 |
| 236 | Transport Properties of Low Resistance Underoxidized Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2815-2817 | 2 | 1 |
| 235 | 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 |
| 234 | . <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3143-3145 | 2 | 12 |
| 233 | Interface stability in CoFe and CoFeB based multilayers. <i>Superlattices and Microstructures</i> , 2007 , 41, 122-126 | 2.6 | 5 |
| 232 | Three-state memory combining resistive and magnetic switching using tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 5819-5823 | 3 | 16 |
| 231 | Electrical current induced pinhole formation and insulator-metal transition in tunnel junctions. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 176207 | 1.8 | 11 |
| 230 | Influence of the domain structure of nano-oxide layers on the transport properties of specular spin valves. <i>Journal of Applied Physics</i> , 2007 , 101, 09E502 | 2.5 | 4 |

| | | | |
|-----|--|-----|-----|
| 229 | Distribution of blocking temperatures in nano-oxide layers of specular spin valves. <i>Journal of Applied Physics</i> , 2007 , 101, 113901 | 2.5 | 17 |
| 228 | Low frequency picotesla field detection using hybrid MgO based tunnel sensors. <i>Applied Physics Letters</i> , 2007 , 91, 102504 | 3.4 | 78 |
| 227 | Nanotechnology and the Detection of Biomolecular Recognition Using Magnetoresistive Transducers 2007 , 3-22 | | |
| 226 | Overcoming the Dipolar Disorder in Dense CoFe Nanoparticle Ensembles: Superferromagnetism. <i>Physical Review Letters</i> , 2007 , 98, | 7.4 | 130 |
| 225 | Competing spin-dependent conductance channels in underoxidized tunnel junctions. <i>Applied Physics Letters</i> , 2007 , 90, 032501 | 3.4 | 13 |
| 224 | Generic Architecture Designed for Biomedical Embedded Systems 2007 , 353-362 | | 2 |
| 223 | Dynamic Thermomagnetic Writing in Tunnel Junction Cells Incorporating Two GeSbTe Thermal Barriers. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 2718-2720 | 2 | 6 |
| 222 | 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 |
| 221 | X-Ray Diffraction Study of Ordered Antiferromagnets for Tunnel Junctions. <i>Materials Science Forum</i> , 2006 , 514-516, 314-318 | 0.4 | |
| 220 | Heat Generation in Tunnel Junctions for Current-Written Pinned Layer Switching. <i>Materials Science Forum</i> , 2006 , 514-516, 323-327 | 0.4 | 7 |
| 219 | 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 |
| 218 | Diode/magnetic tunnel junction cell for fully scalable matrix-based biochip. <i>Journal of Applied Physics</i> , 2006 , 99, 08B307 | 2.5 | 27 |
| 217 | 1/f noise in linearized low resistance MgO magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2006 , 99, 08B314 | 2.5 | 57 |
| 216 | Modulated magnetization depth profile in dipolarly coupled magnetic multilayers. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 16 |
| 215 | Domain structure during magnetization reversal of PtMn/CoFe exchange bias micropatterned lines. <i>Journal of Applied Physics</i> , 2006 , 100, 043918 | 2.5 | 8 |
| 214 | 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 |
| 213 | Dynamic thermo-magnetic writing in tunnel junction cells incorporating two GeSbTe thermal barriers 2006 , | | 2 |
| 212 | Study of synthetic ferrimagnet-synthetic antiferromagnet structures for magnetic sensor application. <i>Journal of Applied Physics</i> , 2006 , 99, 08B703 | 2.5 | 15 |

| | | | |
|-----|---|-----|-----|
| 211 | A New Hand-Held Microsystem Architecture for Biological Analysis. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 2384-2395 | | 22 |
| 210 | Nanosopic processes of current-induced switching in thin tunnel junctions. <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 142-148 | 2.6 | 10 |
| 209 | Collective states of interacting ferromagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 192-197 | 2.8 | 137 |
| 208 | Study of the dynamic magnetic properties of soft CoFeB films. <i>Journal of Applied Physics</i> , 2006 , 100, 053903 | 2.5 | 151 |
| 207 | Nanogranular Layered Magnetic Films 2006 , 1158-1192 | | |
| 206 | Magnetoresistive DNA chips based on ac field focusing of magnetic labels. <i>Journal of Applied Physics</i> , 2006 , 99, 08P105 | 2.5 | 23 |
| 205 | Nanostructures for Spin Electronics 2006 , 403-460 | | 3 |
| 204 | Thermopower in specular spin valves. <i>Journal of Alloys and Compounds</i> , 2006 , 423, 240-243 | 5.7 | 2 |
| 203 | Electromigration-driven resistance switching in non-magnetic tunnel junctions. <i>Journal of Alloys and Compounds</i> , 2006 , 423, 181-183 | 5.7 | 1 |
| 202 | Spin-dependent two-level resistance fluctuations in underoxidized tunnel junctions. <i>Journal of Applied Physics</i> , 2006 , 99, 08T301 | 2.5 | 7 |
| 201 | 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 |
| 200 | Nanocharacterisation of magnetic structures. <i>Journal of Physics: Conference Series</i> , 2006 , 26, 169-174 | 0.3 | 2 |
| 199 | Crossover in heating regimes of thermally assisted magnetic memories. <i>Journal of Applied Physics</i> , 2006 , 99, 08N904 | 2.5 | 20 |
| 198 | Domain imaging, MOKE and magnetoresistance studies of CoFeB films for MRAM applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 126, 180-186 | 3.1 | 26 |
| 197 | Rapid DNA hybridization based on ac field focusing of magnetically labeled target DNA. <i>Applied Physics Letters</i> , 2005 , 87, 013901 | 3.4 | 35 |
| 196 | Characterization of CoFeB electrodes for tunnel junctions. <i>Journal of Applied Physics</i> , 2005 , 97, 10C916 | 2.5 | 29 |
| 195 | Superparamagnetism versus superspin glass behavior in dilute magnetic nanoparticle systems. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 116 |
| 194 | Superferromagnetic domain state of a discontinuous metal insulator multilayer. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 30 |

| | | | |
|-----|--|-----|----|
| 193 | Relaxation phenomena in current-induced switching in thin magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1067-1070 | 2.8 | 3 |
| 192 | Rutherford backscattering and X-ray reflectivity analysis of tunnel barriers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 240, 365-370 | 1.2 | 1 |
| 191 | Analysis of nanolayered samples with a 4He beam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 241, 361-364 | 1.2 | |
| 190 | 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 |
| 189 | Exchange coupling of bilayers and synthetic antiferromagnets pinned to MnPt. <i>European Physical Journal B</i> , 2005 , 45, 207-212 | 1.2 | 14 |
| 188 | Electromigration in thin tunnel junctions with ferromagnetic/nonmagnetic electrodes: Nanoconstrictions, local heating, and direct and wind forces. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 29 |
| 187 | Magnetic biosensors for genetic screening of cystic fibrosis. <i>IET Circuits, Devices and Systems</i> , 2005 , 152, 393 | | 21 |
| 186 | Magnetic microbead detection using the planar Hall effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 677-684 | 2.8 | 61 |
| 185 | Domain structure of magnetically micro-patterned PtMn/NiFe exchange bias bilayers. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3610-3612 | 2 | 10 |
| 184 | Asymmetry of the effective bit addressing times in ultrafast MRAM write operation. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2649-2651 | 2 | |
| 183 | Detection of cystic fibrosis related DNA targets using AC field focusing of magnetic labels and spin-valve sensors. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 4140-4142 | 2 | 33 |
| 182 | Bias field dependence of current-induced precessional magnetization reversal. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 286, 362-365 | 2.8 | 4 |
| 181 | Tunnel barrier fabrication on Si and its impact on a spin transistor. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1383-1386 | 2.8 | 6 |
| 180 | Magnetic field-assisted DNA hybridisation and simultaneous detection using micron-sized spin-valve sensors and magnetic nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 936-944 | 8.5 | 76 |
| 179 | Dynamic heating in submicron size magnetic tunnel junctions with exchange biased storage layer. <i>Journal of Applied Physics</i> , 2005 , 97, 10P501 | 2.5 | 26 |
| 178 | Analytical electron microscopy of advanced multilayer structures for magnetic devices. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 1869-1874 | 3 | 5 |
| 177 | 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 |
| 176 | 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 |

| | | | |
|-----|--|------|-----|
| 175 | Effective bit addressing times for precessional switching of magnetic memory cells. <i>Journal of Applied Physics</i> , 2005 , 97, 123907 | 2.5 | 8 |
| 174 | Low resistance tunnel junctions with remote plasma underoxidized thick barriers. <i>Journal of Applied Physics</i> , 2005 , 97, 10C903 | 2.5 | 4 |
| 173 | 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 |
| 172 | Interlayer dipolar interactions in multilayered granular films. <i>Journal of Applied Physics</i> , 2005 , 97, 10A723 | 2.5 | 13 |
| 171 | Two-dimensional patterns of spin-wave radiation by rectangular spin-valve elements. <i>Journal of Applied Physics</i> , 2005 , 97, 10A717 | 2.5 | 19 |
| 170 | Blocking temperature in exchange coupled MnPt/CoFe bilayers and synthetic antiferromagnets. <i>Journal of Applied Physics</i> , 2005 , 97, 10K110 | 2.5 | 18 |
| 169 | Transmission Electron Microscopy evidence of the growth of a magnetite layer acting as a spin filter in CoFe/Al ₂ O ₃ /CoFe magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2004 , 96, 3307-3311 | 2.5 | 9 |
| 168 | Exchange bias of MnPt/CoFe films prepared by ion beam deposition. <i>Journal of Applied Physics</i> , 2004 , 95, 6317-6321 | 2.5 | 15 |
| 167 | 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 |
| 166 | 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 |
| 165 | Radiation of spin waves by a single micrometer-sized magnetic element. <i>Applied Physics Letters</i> , 2004 , 85, 2866-2868 | 3.4 | 94 |
| 164 | Ferromagnetic coupling field reduction in CoFeB tunnel junctions deposited by ion beam. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 2272-2274 | 2 | 20 |
| 163 | Magnetoresistive-based biosensors and biochips. <i>Trends in Biotechnology</i> , 2004 , 22, 455-62 | 15.1 | 355 |
| 162 | Low-current blocking temperature writing of double-barrier MRAM cells. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 2622-2624 | 2 | 13 |
| 161 | Tunneling hot spots and heating in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2004 , 95, 6783-6785 | 2.5 | 47 |
| 160 | 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 |
| 159 | Impact of the magnetism of nano-oxide layers on the GMR effect in specular spin valves. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1892-1894 | 2.8 | 13 |
| 158 | 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 |

| | | | |
|-----|--|------|-----|
| 157 | Non-equilibrium collective dynamics of a superspin glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1316-1318 | 2.8 | 15 |
| 156 | Flow velocity measurement in microchannels using magnetoresistive chips. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 2652-2654 | 2 | 18 |
| 155 | Universal and scaled relaxation of interacting magnetic nanoparticles. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 39 |
| 154 | Planar Hall effect sensor for magnetic micro- and nanobead detection. <i>Applied Physics Letters</i> , 2004 , 84, 4729-4731 | 3.4 | 162 |
| 153 | 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 |
| 152 | The electronic properties of sputtered chromium and iron oxide films. <i>Corrosion Science</i> , 2004 , 46, 1479-1499 | 6.49 | 82 |
| 151 | Current-induced precessional magnetization reversal. <i>Applied Physics Letters</i> , 2003 , 83, 2205-2207 | 3.4 | 16 |
| 150 | Ion-beam deposited low resistance magnetic tunnel junctions prepared by a two-step oxidation process. <i>Journal of Applied Physics</i> , 2003 , 93, 8552-8554 | 2.5 | 17 |
| 149 | Study of the oxygen migration versus anneal in Co/AlO _x /FeB _e O _y /Ti tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 261, L305-L310 | 2.8 | 11 |
| 148 | Low-field magnetization study of CoFe/Al ₂ O ₃ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 57-61 | 2.8 | 13 |
| 147 | Current-in-plane transport in granular single layers and multilayers of CoFe in Al ₂ O ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 62-67 | 2.8 | 6 |
| 146 | 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 |
| 145 | Phase coherent precessional magnetization reversal in microscopic spin valve elements. <i>Physical Review Letters</i> , 2003 , 90, 017201 | 7.4 | 140 |
| 144 | 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 |
| 143 | Continuous thin barriers for low-resistance spin-dependent tunnel junctions. <i>Journal of Applied Physics</i> , 2003 , 93, 8367-8369 | 2.5 | 22 |
| 142 | Cole-Cole Analysis of the Superspin Glass System Co ₈₀ Fe ₂₀ /Al ₂ O ₃ . <i>Phase Transitions</i> , 2003 , 76, 367-375 | | 26 |
| 141 | Quasiballistic magnetization reversal. <i>Physical Review Letters</i> , 2003 , 90, 017204 | 7.4 | 136 |
| 140 | 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 |

| | | | |
|-----|--|-----|----|
| 139 | Current-induced switching in low resistance magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2003 , 93, 8385-8387 | 2.5 | 28 |
| 138 | Aging and memory in a superspin glass. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 93 |
| 137 | Relaxation and aging of a superferromagnetic domain state. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 46 |
| 136 | Integrated magnetic sensing of electrostatically actuated thin-film microbridges. <i>Journal of Microelectromechanical Systems</i> , 2003 , 12, 550-556 | 2.5 | 13 |
| 135 | Hot-spot mediated current-induced resistance change in magnetic tunnel junctions. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 2833-2835 | 2 | 7 |
| 134 | Precessional switching of the magnetization in microscopic magnetic tunnel junctions (invited). <i>Journal of Applied Physics</i> , 2003 , 93, 7290-7294 | 2.5 | 14 |
| 133 | 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 |
| 132 | Anomalous magnetoresistance behavior of CoFe nano-oxide spin valves at low temperatures. <i>Journal of Applied Physics</i> , 2003 , 93, 7690-7692 | 2.5 | 17 |
| 131 | Current-induced magnetization switching in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2003 , 82, 2871-2873 | 3.4 | 70 |
| 130 | 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 |
| 129 | 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 |
| 128 | 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 |
| 127 | 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 |
| 126 | Coherently suppressed ringing of the magnetization in microscopic giant magnetoresistive devices. <i>Journal of Applied Physics</i> , 2002 , 91, 8043 | 2.5 | 6 |
| 125 | Low resistance spin-dependent tunnel junctions with ZrAlO _x barriers. <i>Journal of Applied Physics</i> , 2002 , 91, 7463 | 2.5 | 8 |
| 124 | Micromagnetic simulation for tunnel junctions with synthetic antiferromagnetic pinned layers annealed at different external fields. <i>Journal of Applied Physics</i> , 2002 , 91, 8296 | 2.5 | 13 |
| 123 | Coherent suppression of magnetic ringing in microscopic spin valve elements. <i>Applied Physics Letters</i> , 2002 , 80, 3781-3783 | 3.4 | 35 |
| 122 | Domain wall relaxation, creep, sliding, and switching in superferromagnetic discontinuous Co(80)Fe(20)/Al(2)O ₃ multilayers. <i>Physical Review Letters</i> , 2002 , 89, 137203 | 7.4 | 75 |

| | | | |
|-----|--|-----|-----|
| 121 | Synthetic ferrimagnet free layer tunnel junction for magnetic random access memories. <i>Journal of Applied Physics</i> , 2002 , 91, 7700 | 2.5 | 33 |
| 120 | On-chip manipulation and magnetization assessment of magnetic bead ensembles by integrated spin-valve sensors. <i>Journal of Applied Physics</i> , 2002 , 91, 7445 | 2.5 | 67 |
| 119 | Microelectromechanical system microbridge deflection monitoring using integrated spin valve sensors and micromagnets. <i>Journal of Applied Physics</i> , 2002 , 91, 7774 | 2.5 | 13 |
| 118 | Comparative study of magnetoresistance and magnetization in nano-oxide specular and nonspecular MnIr/CoFe/Cu/CoFe spin valves from 10 to 300 K. <i>Journal of Applied Physics</i> , 2002 , 91, 5321-5324 | 2.5 | 15 |
| 117 | Superspin Glass Behavior of Interacting Ferromagnetic Nanoparticles in Discontinuous Magnetic Multilayers. <i>Phase Transitions</i> , 2002 , 75, 73-79 | 1.3 | 14 |
| 116 | Quasi-static and dynamic analysis of spin valve tape heads with synthetic free and pinned layers versus heads with a conventional free layer and a synthetic pinned layer. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 1928-1930 | 2 | 2 |
| 115 | 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 |
| 114 | Magnetisation and Magnetoresistance of a Cu-5%Co Alloy Produced Via Powder Metallurgy. <i>Key Engineering Materials</i> , 2002 , 230-232, 110-113 | 0.4 | 1 |
| 113 | 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 |
| 112 | Characterization of nano-oxide layers fabricated by ion beam oxidation. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2755-2757 | 2 | 6 |
| 111 | Effect of natural oxidation conditions on low resistance spin tunnel junctions. <i>Journal of Applied Physics</i> , 2002 , 91, 8786 | 2.5 | 11 |
| 110 | Precessional magnetization reversal in microscopic spin valve cells. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2480-2483 | 2 | 11 |
| 109 | Superspin-glass nature of discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 68 |
| 108 | MEMS microbridge vibration monitoring using spin-valve sensors. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 3371-3373 | 2 | 3 |
| 107 | Low-resistance spin-dependent tunnel junctions with HfAlO/sub x/ barriers for high-density recording-head application. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2703-2705 | 2 | 18 |
| 106 | HIGH RESOLUTION IBA ANALYSIS OF SPIN DEPENDENT TUNNEL JUNCTIONS. <i>Modern Physics Letters B</i> , 2001 , 15, 1288-1296 | 1.6 | 1 |
| 105 | Transport, Magnetic and Time Dependent Effects in Metal-Insulator Granular Layered Films. <i>Materials Science Forum</i> , 2001 , 373-376, 81-86 | 0.4 | |
| 104 | Tunnel junctions with AlN barriers and FeTaN electrodes. <i>Journal of Applied Physics</i> , 2001 , 89, 6868-6870 | 2.5 | 19 |

| | | | |
|-----|--|-----|-----|
| 103 | 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 |
| 102 | Exchange enhancement and thermal anneal in Mn76Ir24 bottom-pinned spin valves. <i>Journal of Applied Physics</i> , 2001 , 89, 6904-6906 | 2.5 | 42 |
| 101 | Annealing effect of magnetic tunnel junctions with one FeOx layer inserted at the Al2O3/CoFe interface. <i>Applied Physics Letters</i> , 2001 , 78, 2911-2913 | 3.4 | 26 |
| 100 | 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 |
| 99 | Influence of ion beam milling parameters on MRAM switching. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 1973-1975 | 2 | 23 |
| 98 | Pulsed sub-band-gap photoexcitation of AlN. <i>Diamond and Related Materials</i> , 2001 , 10, 1326-1330 | 3.5 | 4 |
| 97 | Interacting ferromagnetic nanoparticles in discontinuous Co80Fe20/Al2O3 multilayers: From superspin glass to reentrant superferromagnetism. <i>Physical Review B</i> , 2001 , 63, | 3.3 | 175 |
| 96 | Spin-dependent tunnel junctions with ZrOx barriers. <i>Applied Physics Letters</i> , 2001 , 79, 4387-4389 | 3.4 | 35 |
| 95 | 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 |
| 94 | Low-resistance spin-dependent tunnel junctions with ZrAlOx barriers. <i>Applied Physics Letters</i> , 2001 , 79, 4553-4555 | 3.4 | 35 |
| 93 | 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 |
| 92 | Resistance decrease in spin tunnel junctions by control of natural oxidation conditions. <i>Applied Physics Letters</i> , 2001 , 79, 2219-2221 | 3.4 | 32 |
| 91 | 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 |
| 90 | Time-dependent transport effects in CoFe/Al2O3 discontinuous multilayers. <i>Journal of Applied Physics</i> , 2000 , 87, 6328-6330 | 2.5 | 7 |
| 89 | Spin valve sensors. <i>Sensors and Actuators A: Physical</i> , 2000 , 81, 2-8 | 3.9 | 73 |
| 88 | 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 |
| 87 | Dynamic switching of tunnel junction MRAM cell with nanosecond field pulses. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2770-2772 | 2 | 7 |
| 86 | Spin dependent tunnel junctions for memory and read-head applications. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2796-2801 | 2 | 43 |

| | | | |
|----|---|-----|-----|
| 85 | Magnetoresistance enhancement in specular, bottom-pinned, Mn83Ir17 spin valves with nano-oxide layers. <i>Applied Physics Letters</i> , 2000 , 77, 1020 | 3-4 | 75 |
| 84 | Integrated giant magnetoresistance bridge sensors with transverse permanent magnet biasing. <i>Journal of Applied Physics</i> , 2000 , 87, 5353-5355 | 2-5 | 23 |
| 83 | Influence of Ta antidiffusion barriers on the thermal stability of tunnel junctions. <i>Applied Physics Letters</i> , 2000 , 76, 3792-3794 | 3-4 | 33 |
| 82 | High thermal stability tunnel junctions. <i>Journal of Applied Physics</i> , 2000 , 87, 6058-6060 | 2-5 | 39 |
| 81 | Spin-tunnel-junction thermal stability and interface interdiffusion above 300 °C. <i>Applied Physics Letters</i> , 2000 , 76, 610-612 | 3-4 | 118 |
| 80 | Spin valve sensors with synthetic free and pinned layers. <i>Journal of Applied Physics</i> , 2000 , 87, 5744-5746 | 2-5 | 43 |
| 79 | Precision X-Y robotic object handling using a dual GMR bridge sensor. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2782-2784 | 2 | 5 |
| 78 | Electrical characteristics of magnetic memory cells comprising magnetic tunnel junctions and GaAs diodes. <i>Electronics Letters</i> , 2000 , 36, 1782 | 1-1 | 1 |
| 77 | Temperature dependence and annealing effects on spin dependent tunnel junctions. <i>Journal of Applied Physics</i> , 1999 , 85, 5258-5260 | 2-5 | 55 |
| 76 | 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 |
| 75 | 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 |
| 74 | Performance of NiO spin-valve tape heads for high recording densities. <i>Journal of Applied Physics</i> , 1999 , 85, 5849-5851 | 2-5 | 1 |
| 73 | Giant magnetoresistive sensors for rotational speed control. <i>Journal of Applied Physics</i> , 1999 , 85, 5459-5461 | 2-5 | 27 |
| 72 | 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 |
| 71 | Spin valves with synthetic ferrimagnet and antiferromagnet free and pinned layers. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 2568-2570 | 2 | 15 |
| 70 | 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 |
| 69 | Spin-valve read heads for tape applications. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 734-739 | 2 | 5 |
| 68 | Performance of dual-stripe giant magnetoresistive heads on tape. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 4351-4360 | 2 | 3 |

| | | | |
|----|---|-----|-----|
| 67 | Ion beam deposition and oxidation of spin-dependent tunnel junctions. <i>IEEE Transactions on Magnetism</i> , 1999 , 35, 2952-2954 | 2 | 77 |
| 66 | Ion beam deposition of Mn-Ir spin valves. <i>IEEE Transactions on Magnetism</i> , 1999 , 35, 4361-4367 | 2 | 111 |
| 65 | Micromagnetic simulation method with N1.5 scaling. <i>Journal of Applied Physics</i> , 1999 , 85, 5810-5812 | 2.5 | 4 |
| 64 | Spin valve heads with a corrosion resistant MnRh exchange layer. <i>IEEE Transactions on Magnetism</i> , 1998 , 34, 2343-2347 | 2 | 20 |
| 63 | Mechanism of exchange anisotropy and thermal stability of spin valves biased with ultrathin TbCo layers. <i>Journal of Applied Physics</i> , 1998 , 83, 2851-2856 | 2.5 | 19 |
| 62 | Tunneling magnetoresistance and current distribution effect in spin-dependent tunnel junctions. <i>Journal of Applied Physics</i> , 1998 , 83, 6694-6696 | 2.5 | 32 |
| 61 | Large tunneling magnetoresistance enhancement by thermal anneal. <i>Applied Physics Letters</i> , 1998 , 73, 3288-3290 | 3.4 | 167 |
| 60 | Micromagnetic analysis and current biasing of dual-stripe GMR and dual-GMR sensors for high density recording. <i>IEEE Transactions on Magnetism</i> , 1998 , 34, 1510-1512 | 2 | 1 |
| 59 | The effect of substrate bias on the properties of NiO/NiFe and NiO/CoFe exchange biased spin-valve sensors. <i>IEEE Transactions on Magnetism</i> , 1998 , 34, 3772-3777 | 2 | 3 |
| 58 | Interlayer Coupling Across an Alloy Spacer: Co/Cu75Au25 Multilayers 1998 , 381-388 | | |
| 57 | Transition from Tunneling to Poole-Frenkel Type Transport in Aluminum-Nitride. <i>Materials Science Forum</i> , 1997 , 258-263, 1259-1264 | 0.4 | 2 |
| 56 | Design, fabrication, and wafer level testing of (NiFe/Cu)/sub xn/ dual stripe GMR sensors. <i>IEEE Transactions on Magnetism</i> , 1997 , 33, 2905-2907 | 2 | 10 |
| 55 | Improvement of thermal stability and magnetoresistance recovery of Tb25Co75 biased spin-valve heads. <i>Journal of Applied Physics</i> , 1997 , 81, 4903-4905 | 2.5 | 12 |
| 54 | Influence of the Sputtering Parameters on the Properties of Al2O3 and Aln Insulators in Spin Tunneling Junctions. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 475, 469 | | 11 |
| 53 | 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 |
| 52 | Micromagnetics of spin valve tape heads. <i>Journal of Applied Physics</i> , 1997 , 81, 4847-4849 | 2.5 | 4 |
| 51 | Magnetization reversal process in TbCo-biased spin valves. <i>Journal of Applied Physics</i> , 1996 , 79, 6452 | 2.5 | 12 |
| 50 | Anomalous electrical resistivity in metallic multilayer systems and interfacial structural changes. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 156, 357-358 | 2.8 | 2 |

| | | | |
|----|--|-----|----|
| 49 | Temperature dependence of the electrical resistivity and magnetoresistance of Co/Au _{1-x} Cu _x multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 276-278 | 2.8 | 1 |
| 48 | Narrow trackwidth TbCo-biased magnetoresistive spin-valve sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 2215-2216 | 2.8 | 3 |
| 47 | Magnetothermopower in antiferromagnetically coupled Co-Re superlattices. <i>Journal of Applied Physics</i> , 1994 , 75, 6551-6553 | 2.5 | 1 |
| 46 | Short period oscillation of the interlayer exchange coupling in sputtered Co-Re superlattices. <i>Journal of Applied Physics</i> , 1994 , 75, 6449-6451 | 2.5 | 6 |
| 45 | 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 |
| 44 | Spin-valve structures exchange biased with a-Tb _{0.23} Co _{0.77} layers. <i>Journal of Applied Physics</i> , 1994 , 75, 6480-6482 | 2.5 | 28 |
| 43 | Spin-valve sensors exchange-biased by ultrathin TbCo films. <i>Applied Physics Letters</i> , 1994 , 65, 493-495 | 3.4 | 36 |
| 42 | Stabilization of the hexagonal close-packed phase of cobalt at high temperature. <i>Journal of Applied Physics</i> , 1994 , 76, 6537-6539 | 2.5 | 4 |
| 41 | Temperature dependence of the electrical resistivity, thermopower and magnetoresistance of Co-Re superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 137, 73-88 | 2.8 | 4 |
| 40 | A comparative study of Co/Re superlattices sputtered on glass and Si substrates by grazing angle of incidence RBS, HRTEM, PAC, magnetic and transport properties studies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994 , 85, 202-205 | 1.2 | 6 |
| 39 | . <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 3831-3833 | 2 | 14 |
| 38 | MAGNETIC ANISOTROPY AND STRUCTURE DEPENDENCE OF THE HYPERFINE FIELD IN Co FILMS AND Co/Re MULTILAYERS. <i>International Journal of Modern Physics B</i> , 1993 , 07, 470-473 | 1.1 | |
| 37 | Antiferromagnetic exchange and enhanced magnetoresistance in glass/ Fe ₅₀ Co ₁₁ /Cu ₁₀ structures. <i>Journal of Applied Physics</i> , 1993 , 73, 5527-5529 | 2.5 | 4 |
| 36 | Magnetization reversal processes in Co-Re antiferromagnetically coupled multilayers: A magneto-optic and Monte Carlo study. <i>Journal of Applied Physics</i> , 1993 , 74, 2692-2700 | 2.5 | 3 |
| 35 | Interface and structure characterization of Co/Re multilayers using RBS/channeling and hyperfine interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 121, 80-82 | 2.8 | 8 |
| 34 | Magneto-optic and Monte Carlo studies of antiferromagnetically coupled Co-Re multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 121, 286-290 | 2.8 | 2 |
| 33 | Interfacial spin-dependent scattering in Co-Re antiferromagnetically coupled multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 121, 390-394 | 2.8 | 7 |
| 32 | Oscillatory exchange and giant magnetoresistance in Co-Cu superlattices deposited on glass substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 121, 395-398 | 2.8 | 4 |

| | | | |
|----|--|-----|----|
| 31 | Magnetoresistance Interpretation and Magnetization Processes in Co-Re and Co-Cu Multilayers. <i>NATO ASI Series Series B: Physics</i> , 1993 , 343-358 | | 1 |
| 30 | Antiferromagnetic exchange and magnetoresistance enhancement in Co-Re superlattices. <i>Physical Review B</i> , 1992 , 45, 2495-2498 | 3.3 | 18 |
| 29 | Antiferromagnetic exchange and magnetoresistance enhancement in ultrathin Co-Re sandwiches. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 116, 92-94 | 2.8 | 3 |
| 28 | Magnetoresistance enhancement in Gd- Y bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 93, 485-488 | 2.8 | |
| 27 | Magnetic and transport properties of sputtered Gd-Y multilayers. <i>Journal of Applied Physics</i> , 1991 , 69, 4532-4534 | 2.5 | 4 |
| 26 | Structural characterization of Co-Re superlattices. <i>Journal of Applied Physics</i> , 1991 , 70, 7370-7373 | 2.5 | 17 |
| 25 | Magnetic and Transport Properties of Amorphous U _{1-x} Sb _x Ferromagnets. <i>Physica Scripta</i> , 1991 , T39, 110-114 | 2.6 | 2 |
| 24 | Magnetoresistance of Amorphous U _{1-x} Sb _x Films. <i>NATO ASI Series Series B: Physics</i> , 1991 , 405-410 | | |
| 23 | . <i>IEEE Transactions on Magnetics</i> , 1990 , 26, 1491-1493 | 2 | 1 |
| 22 | Anisotropic magnetoresistance in Co films. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 113-118 | 2.8 | 11 |
| 21 | Magnetoresistance of Gd-Y multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 116-118 | 2.8 | 4 |
| 20 | Giant anisotropic magnetoresistance and excess resistivity in amorphous U _{1-x} Sb _x ferromagnets. <i>Physical Review Letters</i> , 1990 , 64, 2184-2187 | 7.4 | 13 |
| 19 | Giant transverse hysteresis in an asperomagnet. <i>Physical Review B</i> , 1990 , 41, 9585-9587 | 3.3 | 6 |
| 18 | Large magnetoresistance anisotropy in a new class of amorphous ferromagnets: U _{100-x} Sb _x M _y . <i>Journal of Applied Physics</i> , 1990 , 67, 4901-4903 | 2.5 | 3 |
| 17 | Effect of oxygen content in the thermoelectric power of YBa ₂ Cu ₃ O _{7-δ} <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 1345-1346 | 1.3 | 5 |
| 16 | Effect of atomic order on the electrical resistivity of Co _x Fe. <i>Physical Review B</i> , 1988 , 37, 6079-6084 | 3.3 | 16 |
| 15 | Transport mechanisms in Y ₁ Ba ₂ Cu ₃ O _{6+δ} superconductors in the metallic and the semiconducting regimes. <i>Physical Review B</i> , 1988 , 37, 3657-3659 | 3.3 | 31 |
| 14 | Transport properties in amorphous U _x T _{1-x} films (T=Fe, Ni, Gd, Tb, and Yb) (invited). <i>Journal of Applied Physics</i> , 1988 , 64, 5453-5458 | 2.5 | 11 |

| | | | |
|----|---|-----|-----|
| 13 | Random-anisotropy ferromagnetism in amorphous U27Fe73 films. <i>Journal of Applied Physics</i> , 1988 , 63, 3746-3748 | 2.5 | 13 |
| 12 | On the temperature dependence of the magnetoresistance of ferromagnetic alloys. <i>Journal of Applied Physics</i> , 1988 , 64, 5459-5461 | 2.5 | 23 |
| 11 | Phonons in YBa2Cu3O7- delta -type materials. <i>Physical Review B</i> , 1988 , 37, 5171-5174 | 3.3 | 38 |
| 10 | Thermodynamic fluctuations in the superconductor Y1Ba2Cu3O9- delta : Evidence for three-dimensional superconductivity. <i>Physical Review B</i> , 1987 , 36, 833-835 | 3.3 | 278 |
| 9 | Properties of epitaxial films of YBa2Cu3O7- delta. <i>Physical Review B</i> , 1987 , 36, 8903-8906 | 3.3 | 95 |
| 8 | High-temperature order-disorder phase transition in the superconductor Y1Ba. <i>Physical Review B</i> , 1987 , 36, 5723-5726 | 3.3 | 93 |
| 7 | Comparative study of superconducting energy gaps in oriented films and polycrystalline bulk samples of Y-Ba-Cu-O. <i>Physical Review Letters</i> , 1987 , 59, 704-707 | 7.4 | 83 |
| 6 | Anisotropic magnetoresistance of Co-Fe thin films. <i>Journal of Applied Physics</i> , 1987 , 61, 4385-4387 | 2.5 | 17 |
| 5 | Raman and infrared results on YBa2Cu3O7-x type materials. <i>Solid State Communications</i> , 1987 , 64, 471-476 | 7.6 | 72 |
| 4 | Anisotropic magnetoresistance of Co-Fe alloys and the effect of atomic ordering. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 54-57, 1515-1516 | 2.8 | 11 |
| 3 | 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 |
| 2 | Critical behavior of the magnetoresistance of Gd near the Curie point: an experimental test of theoretical models. <i>Journal of Physics F: Metal Physics</i> , 1983 , 13, 1245-1255 | | 8 |
| 1 | MagCMOS170-182 | | |