

Manuel Vazquez

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779 papers	17,577 citations	61 h-index	91 g-index
822 ext. papers	18,774 ext. citations	3 avg, IF	6.55 L-index

#	Paper	IF	Citations
779	A soft magnetic wire for sensor applications. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 939-949	3	331
778	Magnetic Iron Oxide Nanoparticles in 10-40 nm Range: Composition in Terms of Magnetite/Maghemite Ratio and Effect on the Magnetic Properties. <i>Chemistry of Materials</i> , 2011 , 23, 1379-1386	9.6	244
777	Analysis of the dependence of spin-spin correlations on the thermal treatment of nanocrystalline materials. <i>Physical Review B</i> , 1995 , 51, 3581-3586	3.3	219
776	Magnetic properties of glass-coated amorphous and nanocrystalline microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 160, 223-228	2.8	202
775	Photovoltaic module reliability model based on field degradation studies. <i>Progress in Photovoltaics: Research and Applications</i> , 2008 , 16, 419-433	6.8	190
774	On the state-of-the-art in magnetic microwires and expected trends for scientific and technological studies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 493-501	1.6	187
773	Soft magnetic wires. <i>Physica B: Condensed Matter</i> , 2001 , 299, 302-313	2.8	177
772	Giant magneto-impedance effect in nanostructured magnetic wires. <i>Journal of Applied Physics</i> , 1996 , 79, 1646-1654	2.5	175
771	Giant magnetoimpedance effect in soft magnetic wires for sensor applications. <i>Sensors and Actuators A: Physical</i> , 1997 , 59, 20-29	3.9	171
770	Preparation and properties of glass-coated microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 249, 39-45	2.8	158
769	. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 1229-1238	2	144
768	Giant Magnetoimpedance. <i>Handbook of Magnetic Materials</i> , 2003 , 15, 497-563	1.3	141
767	Magnetoelastic anisotropy distribution in glass-coated microwires. <i>Journal of Materials Research</i> , 1996 , 11, 2499-2505	2.5	141
766	Giant magneto-impedance in soft magnetic Wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 693-699	2.8	134
765	Temperature, stress, and structural-relaxation dependence of the magnetostriction in (Co _{0.94} /BFe _{0.06}) ₇₅ /BSi ₁₅ B ₁₀ glasses. <i>Physical Review B</i> , 1987 , 35, 5066-5071	3.3	134
764	Magnetoimpedance of metallic ferromagnetic wires. <i>Physical Review B</i> , 1998 , 57, 10699-10704	3.3	131
763	Magnetic properties of densely packed arrays of Ni nanowires as a function of their diameter and lattice parameter. <i>Journal of Applied Physics</i> , 2004 , 95, 6642-6644	2.5	124

762	Magnetic anisotropy in CoNi nanowire arrays: Analytical calculations and experiments. <i>Physical Review B</i> , 2012 , 85,	3.3	121
761	Single-domain wall propagation and damping mechanism during magnetic switching of bistable amorphous microwires. <i>Physical Review Letters</i> , 2005 , 94, 017201	7.4	118
760	The remagnetization process in thin and ultra-thin Fe-rich amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 151, 132-138	2.8	117
759	Size and surface effects on the magnetic properties of NiO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9561-7	3.6	115
758	Induced magnetic anisotropy and change of the magnetostriction by current annealing in Co-based amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 53, 323-329	2.8	112
757	Magnetic behavior of an array of cobalt nanowires. <i>Journal of Applied Physics</i> , 1999 , 85, 5480-5482	2.5	108
756	Critical exponents of the ferromagnetic-paramagnetic phase transition of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ (0.20). <i>Physical Review B</i> , 1999 , 59, 123-126	3.3	107
755	Giant magnetoimpedance in nonmagnetostrictive amorphous wires. <i>Physical Review B</i> , 1994 , 50, 16737-16740	3.3	107
754	Soft to hard magnetic anisotropy in nanostructured magnets. <i>Physical Review B</i> , 1998 , 58, 5193-5196	3.3	101
753	Magnetic reversal modes in cylindrical nanowires. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 485001	3	97
752	Microwires coated by glass: A new family of soft and hard magnetic materials. <i>Journal of Materials Research</i> , 2000 , 15, 2107-2113	2.5	96
751	. <i>IEEE Transactions on Magnetics</i> , 1989 , 25, 3330-3332	2	94
750	Metallic glasses and sensing applications. <i>Journal of Physics E: Scientific Instruments</i> , 1988 , 21, 1129-1139		91
749	Magnetic microwires as macrospins in a long-range dipole-dipole interaction. <i>Physical Review B</i> , 2000 , 61, 8976-8983	3.3	90
748	Thermal dependence of coercivity in soft magnetic nanocrystals. <i>Physical Review B</i> , 1998 , 58, 366-370	3.3	90
747	Magnetostriction in glass-coated magnetic microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 258-259, 151-157	2.8	87
746	Magnetic interactions and reversal mechanisms in Co nanowire and nanotube arrays. <i>Journal of Applied Physics</i> , 2013 , 113, 093907	2.5	86
745	Influence of the sample length on the switching process of magnetostrictive amorphous wire. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 103, 117-125	2.8	85

744	Barium hexaferrite monodispersed nanoparticles prepared by the ceramic method. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 234, 65-72	2.8	84
743	Enhanced Magneto-Optics and Size Effects in Ferromagnetic Nanowire Arrays. <i>Advanced Materials</i> , 2007 , 19, 2643-2647	24	82
742	Magnetic behaviour of densely packed hexagonal arrays of Ni nanowires: Influence of geometric characteristics. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 294, 174-181	2.8	81
741	Magneto-optical properties of nickel nanowire arrays. <i>Applied Physics Letters</i> , 2003 , 83, 4547-4549	3.4	80
740	Novel magnetic materials prepared by electrodeposition techniques: arrays of nanowires and multi-layered microwires. <i>Journal of Alloys and Compounds</i> , 2004 , 369, 18-26	5.7	77
739	Magnetic hardening of FeSiBCuNb ribbons and wires during the first stage of crystallization to a nanophase structure. <i>Applied Physics Letters</i> , 1994 , 64, 3184-3186	3.4	74
738	Arrays of Ni nanowires in alumina membranes: magnetic properties and spatial ordering. <i>European Physical Journal B</i> , 2004 , 40, 489-497	1.2	73
737	Round table discussion: Present and future applications of nanocrystalline magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 294, 252-266	2.8	73
736	Magnetic properties of Co nanopillar arrays prepared from alumina templates. <i>Nanotechnology</i> , 2013 , 24, 105703	3.4	72
735	Tunable magnetic nanowires for biomedical and harsh environment applications. <i>Scientific Reports</i> , 2016 , 6, 24189	4.9	71
734	Very large magnetoimpedance effect in FeCoNi ferromagnetic tubes with high order magnetic anisotropy. <i>Journal of Applied Physics</i> , 2001 , 90, 6280-6286	2.5	71
733	The effect of tensile stresses on the magnetic properties of Co ₅₈ Fe ₅ Ni ₁₀ Si ₁₁ B ₁₆ amorphous alloys. <i>Physica Status Solidi A</i> , 1983 , 80, 195-204		71
732	Control of the chirality and polarity of magnetic vortices in triangular nanodots. <i>Physical Review B</i> , 2010 , 81,	3.3	70
731	Remanence of Ni nanowire arrays: Influence of size and labyrinth magnetic structure. <i>Physical Review B</i> , 2007 , 75,	3.3	68
730	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 907-912	2	68
729	Modification of the saturation magnetostriction constant after thermal treatments for the Co ₅₈ Fe ₅ Ni ₁₀ B ₁₆ Si ₁₁ amorphous ribbon. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 37, 161-166	2.8	68
728	Magnetic anisotropy in ordered textured Co nanowires. <i>Applied Physics Letters</i> , 2012 , 100, 252405	3.4	67
727	. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 781-790	2	67

726	Structural and magnetic properties of nanocrystalline Fe _{73.5} Co _{13.5} B ₉ CuNb ₃ alloys. <i>Physical Review B</i> , 2001 , 65,	3.3	66
725	Ni growth inside ordered arrays of alumina nanopores: Enhancing the deposition rate. <i>Electrochimica Acta</i> , 2012 , 72, 215-221	6.7	65
724	Multilayer Microwires: Tailoring Magnetic Behavior by Sputtering and Electroplating. <i>Advanced Functional Materials</i> , 2004 , 14, 266-268	15.6	65
723	Stress dependence of the giant magneto-impedance effect in amorphous wires. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, L115-L120	1.8	64
722	Magnetic properties of amorphous and devitrified FeSiBCuNb glass-coated microwires. <i>Scripta Materialia</i> , 1996 , 7, 823-834		63
721	Magnetization reversal in Co-base nanowire arrays. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2368-2381	1.3	62
720	Microwave absorption of nanoscale CoNi powders. <i>Journal of Applied Physics</i> , 2006 , 99, 104308	2.5	61
719	Tailoring of magnetic properties of glass-coated microwires by current annealing. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 31-36	3.9	61
718	Magnetoimpedance effect in amorphous and nanocrystalline ribbons. <i>Journal of Applied Physics</i> , 2001 , 90, 4783-4790	2.5	60
717	Long-range magnetostatic interactions in arrays of nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 222, 227-232	2.8	60
716	Frequency dependence of the magnetoimpedance in amorphous CoP electrodeposited layers. <i>Journal of Applied Physics</i> , 2000 , 87, 4825-4827	2.5	58
715	Magnetic properties of Fe-based glass-coated microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 170, 323-330	2.8	57
714	Giant magneto-impedance in heterogeneous microwires. <i>Journal of Applied Physics</i> , 2000 , 88, 6501-6505	2.5	57
713	Induced magnetic anisotropy in CoMnSiB amorphous microwires. <i>Journal of Applied Physics</i> , 2000 , 87, 1402-1409	2.5	57
712	Trapping and injecting single domain walls in magnetic wire by local fields. <i>Physical Review Letters</i> , 2012 , 108, 037201	7.4	55
711	Magneto-impedance in glass-coated CoMnSiB amorphous microwires. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 724-728	2	55
710	Magnetic nanoparticles: synthesis, ordering and properties. <i>Physica B: Condensed Matter</i> , 2004 , 354, 71-78	7.8	55
709	Method for continuous nondisturbing monitoring of blood pressure by magnetoelastic skin curvature sensor and ECG. <i>IEEE Sensors Journal</i> , 2006 , 6, 819-828	4	54

708	Magnetic properties and GMI of soft melt-extracted magnetic amorphous fibers. <i>Sensors and Actuators A: Physical</i> , 2003 , 106, 225-229	3.9	54
707	Evaluation of the linear magnetostriction in amorphous wires using the giant magneto-impedance effect. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 160, 243-244	2.8	54
706	Ordered Ni nanohole arrays with engineered geometrical aspects and magnetic anisotropy. <i>Applied Physics Letters</i> , 2007 , 90, 192501	3.4	53
705	The influence of field- and stress-induced magnetic anisotropy on the magnetoimpedance in nanocrystalline FeCuNbSiB alloys. <i>Journal of Applied Physics</i> , 1998 , 83, 6581-6583	2.5	53
704	Structural relaxation and magnetic properties of Co-rich amorphous wire. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 118, 86-92	2.8	53
703	Glass-coated amorphous ferromagnetic microwires at microwave frequencies. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2066-2073	2.8	52
702	Size effect and surface tension measurements in Ni and Co nanowires. <i>Physical Review B</i> , 2007 , 76,	3.3	51
701	Effects of surfactants on the particle morphology and self-organization of Co nanocrystals. <i>Materials Science and Engineering C</i> , 2003 , 23, 1129-1132	8.3	51
700	Frequency dependence of coercivity in rapidly quenched amorphous materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 226-228, 753-758	5.3	50
699	Magnetoimpedance effect in zero magnetostriction nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{16.5} B ₆ ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 185, 61-65	2.8	50
698	Temperature influence on the anodic growth of self-aligned Titanium dioxide nanotube arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 110-113	2.8	50
697	Switching-field distribution in amorphous magnetic bistable microwires. <i>Physical Review B</i> , 2004 , 70,	3.3	50
696	Magnetic and structural properties of fcc/hcp bi-crystalline multilayer Co nanowire arrays prepared by controlled electroplating. <i>Journal of Applied Physics</i> , 2011 , 109, 083919	2.5	49
695	Torsion dependence of the magnetization process in magnetostrictive amorphous wire. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 96, 321-328	2.8	49
694	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 3147-3149	2	49
693	Ferromagnetic resonance in microwires and nanowires. <i>Physical Review B</i> , 2011 , 83,	3.3	48
692	Influence of the sample length and profile of the magnetoimpedance effect in FeCrSiBCuNb ultrasoft magnetic wires. <i>Journal of Applied Physics</i> , 2002 , 91, 6539	2.5	48
691	Geometry-dependent magnetization reversal mechanism in ordered Py antidot arrays. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 505001	3	47

690	The effect of transverse field on fast domain wall dynamics in magnetic microwires. <i>Applied Physics Letters</i> , 2010 , 96, 182507	3.4	47
689	Modelling hysteresis of interacting nanowires arrays. <i>Physica B: Condensed Matter</i> , 2004 , 343, 395-402	2.8	46
688	Multidomain to single-domain transition for uniform Co ₈₀ Ni ₂₀ nanoparticles. <i>Nanotechnology</i> , 2003 , 14, 268-272	3.4	46
687	Magneto-impedance effect in high permeability NiFeMo permalloy wires. <i>Journal of Applied Physics</i> , 1998 , 83, 6578-6580	2.5	46
686	Dynamic magnetostatic interaction between amorphous ferromagnetic wires. <i>Physical Review B</i> , 1996 , 54, 9903-9911	3.3	46
685	Electrochemical synthesis and magnetic characterization of periodically modulated Co nanowires. <i>Nanotechnology</i> , 2014 , 25, 145301	3.4	45
684	Tailoring of magnetocaloric response in nanostructured materials: Role of anisotropy. <i>Physical Review B</i> , 2008 , 77,	3.3	45
683	Magnetic force microscopy study of dense stripe domains in Fe-B/Co-Si-B multilayers and the evolution under an external applied field. <i>Physical Review B</i> , 2000 , 62, 6538-6544	3.3	45
682	Low-field microwave magnetoimpedance in amorphous microwires. <i>Journal of Applied Physics</i> , 1999 , 85, 4442-4444	2.5	45
681	Quantitative Nanoscale Magnetic Study of Isolated Diameter-Modulated FeCoCu Nanowires. <i>ACS Nano</i> , 2016 , 10, 9669-9678	16.7	45
680	Spin configuration of cylindrical bamboo-like magnetic nanowires. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 978-984	7.1	44
679	Synthesis and magnetic properties of Ni nanocylinders in self-aligned and randomly disordered grown titania nanotubes. <i>Nanotechnology</i> , 2005 , 16, 2696-2702	3.4	44
678	Temperature dependence of the switching field and its distribution function in Fe-based bistable microwires. <i>Applied Physics Letters</i> , 2003 , 83, 2620-2622	3.4	44
677	Giant magnetic hardening of a Fe-Zr-B-Cu amorphous alloy during the first stages of nanocrystallization. <i>Physical Review B</i> , 1996 , 53, 3392-3397	3.3	44
676	Tuning the magnetization reversal process of FeCoCu nanowire arrays by thermal annealing. <i>Journal of Applied Physics</i> , 2013 , 114, 043908	2.5	43
675	Nanoscale Topography: A Tool to Enhance Pore Order and Pore Size Distribution in Anodic Aluminum Oxide. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8567-8572	3.8	43
674	Magnetic domain observation in amorphous wires. <i>Journal of Applied Physics</i> , 1993 , 73, 5357-5359	2.5	43
673	Magnetization Ratchet in Cylindrical Nanowires. <i>ACS Nano</i> , 2018 , 12, 5932-5939	16.7	43

672	Magnetization pinning in modulated nanowires: from topological protection to the "corkscrew" mechanism. <i>Nanoscale</i> , 2018 , 10, 5923-5927	7.7	42
671	Co nanostructures in ordered templates: comparative FORC analysis. <i>Nanotechnology</i> , 2013 , 24, 475703	3.4	42
670	Crystallographically driven magnetic behaviour of arrays of monocrystalline Co nanowires. <i>Nanotechnology</i> , 2014 , 25, 475702	3.4	42
669	Advanced Magnetic Microwires 2007 ,		42
668	Tailoring the magnetic anisotropy of CoFeB/MgO stacks onto W with a Ta buffer layer. <i>Applied Physics Letters</i> , 2015 , 106, 262401	3.4	41
667	Giant magnetoimpedance effect and magnetoelastic properties in stress-annealed FeCuNbSiB nanocrystalline wire. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 3096-3098	2	41
666	Frequency dependence of giant magnetoimpedance effect in CuBe/CoFeNi plated wire with different types of magnetic anisotropy. <i>Journal of Applied Physics</i> , 2000 , 87, 4822-4824	2.5	41
665	The stress dependence of the switching field in glass-coated amorphous microwires. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 3040-3045	3	41
664	Hysteretic Behavior and Anisotropy Fields in the Magneto-Impedance Effect. <i>Materials Science Forum</i> , 1999 , 302-303, 209-218	0.4	41
663	Magnetoelastic anisotropy in amorphous wires due to quenching. <i>Journal of Applied Physics</i> , 1991 , 70, 6525-6527	2.5	41
662	Influence of aspect ratio and anisotropy distribution in ordered CoNi nanowire arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3679-3682	2.8	40
661	Coercivity of ordered arrays of magnetic Co nanowires with controlled variable lengths. <i>Applied Physics Letters</i> , 2011 , 98, 232507	3.4	40
660	Calibration of Coercive and Stray Fields of Commercial Magnetic Force Microscope Probes. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 245-250	2.6	40
659	Rotational giant magnetoimpedance in soft magnetic wires: Modelization through Fourier harmonic contribution. <i>Applied Physics Letters</i> , 2001 , 78, 246-248	3.4	40
658	Microwave magnetoabsorption in glass-coated amorphous microwires with radii close to skin depth. <i>Journal of Applied Physics</i> , 2002 , 92, 2058-2063	2.5	40
657	The influence of Cr addition on the corrosion resistance of Fe _{73.5} Si _{13.5} B ₉ Nb ₃ Cu ₁ metallic glass in marine environments. <i>Corrosion Science</i> , 2002 , 44, 1193-1211	6.8	40
656	Correlation between structure and the magnetic properties of amorphous and nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{22.5} B _x alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 133, 310-313	2.8	40
655	Co-Si-B and Fe-Co-B amorphous alloys: Induced anisotropy and various magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 66, 37-44	2.8	40

654	Domain wall pinning in FeCoCu bamboo-like nanowires. <i>Scientific Reports</i> , 2016 , 6, 29702	4.9	40
653	Correlation between structure and magnetic properties in Co ₉₀ Fe ₁₀ nanowires: the roles of composition and wire diameter. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 145304	3	39
652	Fabrication of Well-Ordered High-Aspect-Ratio Nanopore Arrays in TiO ₂ Single Crystals. <i>Nano Letters</i> , 2006 , 6, 1065-1068	11.5	39
651	Origin of asymmetrical magnetoimpedance in a Co-based amorphous microwire due to dc bias current. <i>Applied Physics Letters</i> , 2003 , 83, 2871-2873	3.4	39
650	Giant magnetoimpedance modelling using Fourier analysis in soft magnetic amorphous wires. <i>Physica B: Condensed Matter</i> , 2001 , 299, 322-328	2.8	39
649	High-temperature magnetic behavior of FeCo-based nanocrystalline alloys. <i>Physical Review B</i> , 2002 , 66,	3.3	39
648	Vortex domain wall propagation in periodically modulated diameter FeCoCu nanowire as determined by the magneto-optical Kerr effect. <i>Nanotechnology</i> , 2015 , 26, 461001	3.4	38
647	Exchange bias, training effect, and bimodal distribution of blocking temperatures in electrodeposited core-shell nanotubes. <i>Physical Review B</i> , 2013 , 87,	3.3	38
646	A position sensor based on magnetoimpedance. <i>Journal of Applied Physics</i> , 1996 , 79, 6549	2.5	38
645	Giant magnetoimpedance in CoP electrodeposited microtubes. <i>Journal of Materials Research</i> , 2000 , 15, 751-755	2.5	38
644	Interacting amorphous ferromagnetic wires: A complex system. <i>Journal of Applied Physics</i> , 1999 , 85, 2768-2774	3.7	38
643	Different kinds of magnetic anisotropies induced by current annealing in metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 68, 151-156	2.8	38
642	Temperature dependence of the magnetostriction constant of nearly zero magnetostriction amorphous alloys. <i>Applied Physics Letters</i> , 1984 , 45, 802-804	3.4	38
641	Magnetic structure of a single-crystal hcp electrodeposited cobalt nanowire. <i>Europhysics Letters</i> , 2013 , 102, 17009	1.6	37
640	Multisegmented Nanowires: a Step towards the Control of the Domain Wall Configuration. <i>Scientific Reports</i> , 2017 , 7, 11576	4.9	37
639	Reliability analysis of temperature step-stress tests on III-V high concentrator solar cells. <i>Microelectronics Reliability</i> , 2009 , 49, 673-680	1.2	37
638	Revised core-shell domain model for magnetostrictive amorphous wires. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 994-1002	2	37
637	Phenomenological study of the amorphous Fe ₈₀ B ₂₀ ferromagnet with small random anisotropy. <i>Physical Review B</i> , 1990 , 42, 898-905	3.3	37

636	Single crystalline cylindrical nanowires - toward dense 3D arrays of magnetic vortices. <i>Scientific Reports</i> , 2016 , 6, 23844	4.9	37
635	Electrolyte influence on the anodic synthesis of TiO ₂ nanotube arrays. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5233-5235	3.9	36
634	A detailed analysis of dipolar interactions in arrays of bi-stable magnetic nanowires. <i>Nanotechnology</i> , 2007 , 18, 415708	3.4	36
633	Influence of Anodic Conditions on Self-ordered Growth of Highly Aligned Titanium Oxide Nanopores. <i>Nanoscale Research Letters</i> , 2007 , 2, 355-363	5	36
632	An alternative approach to giant magnetoimpedance phenomena in amorphous ferromagnetic wires. <i>Journal of Applied Physics</i> , 1995 , 78, 5189-5191	2.5	36
631	Effects of the magnetoelastic anisotropy in Ni nanowire arrays. <i>Journal of Applied Physics</i> , 2008 , 103, 07D523	2.5	35
630	Curie-temperature enhancement of ferromagnetic phases in nanoscale heterogeneous systems. <i>Physical Review B</i> , 1996 , 53, 8223-8226	3.3	35
629	Magnetization reversal dependence on effective magnetic anisotropy in electroplated Co/Cu nanowire arrays. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4688-4697	7.1	34
628	Variable-field magnetic force microscopy. <i>Ultramicroscopy</i> , 2009 , 109, 693-9	3.1	34
627	III-V concentrator solar cell reliability prediction based on quantitative LED reliability data. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 477-491	6.8	34
626	Optimized giant magnetoimpedance effect in amorphous and nanocrystalline materials. <i>Journal of Applied Physics</i> , 2006 , 99, 08C505	2.5	34
625	Exchange anisotropy in Co ₈₀ Ni ₂₀ /oxide nanoparticles. <i>Nanotechnology</i> , 2004 , 15, S293-S297	3.4	34
624	Self-organized nanowires: evidence of dipolar interactions from ferromagnetic resonance measurements. <i>Physica B: Condensed Matter</i> , 2004 , 354, 195-197	2.8	34
623	Influence of Ni on the structural and magnetic properties of Ni _x Fe _{73.5} Si _{13.5} B ₉ Nb ₃ Cu ₁ (0 ≤ x ≤ 25) alloys. <i>Journal of Applied Physics</i> , 2005 , 97, 023901	2.5	34
622	Distinguishing nanowire and nanotube formation by the deposition current transients. <i>Nanoscale Research Letters</i> , 2012 , 7, 280	5	33
621	Degradation of AlInGaP red LEDs under drive current and temperature accelerated life tests. <i>Microelectronics Reliability</i> , 2010 , 50, 1559-1562	1.2	33
620	Field induced vortex dynamics in magnetic Ni nanotriangles. <i>Nanotechnology</i> , 2008 , 19, 285717	3.4	33
619	Skin-effect and circumferential permeability in micro-wires utilized in GMI-sensors. <i>Sensors and Actuators A: Physical</i> , 2005 , 119, 384-389	3.9	33

618	Hysteretic giant magneto impedance. <i>Journal of Applied Physics</i> , 1998 , 84, 5814-5816	2.5	33
617	Magnetoimpedance effect in CoFeNi plated wire with ac field annealing destabilized domain structure. <i>Journal of Applied Physics</i> , 1999 , 85, 5438-5440	2.5	33
616	Grain boundary impedance of doped MnZn ferrites. <i>Journal of Materials Research</i> , 1999 , 14, 861-865	2.5	33
615	Magnetic nanowire arrays in anodic alumina membranes: Rutherford backscattering characterization. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 1701-1706	2.6	32
614	Effects of bias field and driving current on the equivalent circuit response of magnetoimpedance in amorphous wires. <i>Journal Physics D: Applied Physics</i> , 1995 , 28, 2404-2410	3	32
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