

# Dimitrios Niarchos

## List of Publications by Year in Descending Order

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

357  
papers

5,758  
citations

35  
h-index

56  
g-index

377  
ext. papers

6,032  
ext. citations

2.8  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
357	Shadow effect photodetector with linear output voltage vs light intensity. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 203102	2.5	1
356	Nanopatterned hard/soft bilayer magnetic antidot arrays with long-range periodicity. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 498, 166142	2.8	3
355	ThMn <sub>12</sub> -Type Alloys for Permanent Magnets. <i>Engineering</i> , <b>2020</b> , 6, 141-147	9.7	33
354	Thermoelectric figure of merit in transverse magnetic field under adiabatic and isothermal conditions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 493, 165660	2.8	1
353	Effect of cobalt substitution on structure and magnetic properties of Nd <sub>0.4</sub> Zr <sub>0.6</sub> Fe <sub>10</sub> Co <sub>x</sub> Si <sub>2</sub> (x = 0B) alloys and their ribbons. <i>Journal of Rare Earths</i> , <b>2019</b> , 37, 1096-1101	3.7	1
352	Nitrogenation and sintering of (Nd-Zr)Fe <sub>10</sub> Si <sub>2</sub> tetragonal compounds for permanent magnets applications. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 784, 996-1002	5.7	6
351	Investigation of split CoFeB/Ta/CoFeB/MgO stacks for magnetic memories applications. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 473, 355-359	2.8	3
350	Voltage-controlled negative differential resistance in metal-sputtered alumina-Si structures. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 085101	3	
349	Perpendicular magnetic anisotropy mechanism on commercial CD substrate. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 458, 109-115	2.8	
348	Coherently strained [FeCo(C)/AuCu] <sub>n</sub> multilayers: a path to induce magnetic anisotropy in FeCo films over large thicknesses. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 055009	3	2
347	Effect of hierarchically distributed nano-to microscale skutterudite inclusions on the lattice thermal conductivity of TiNiSn-based half-Heusler alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 732, 928-934	5.7	1
346	L1-FeNi films on Au-Cu-Ni buffer-layer: a high-throughput combinatorial study. <i>Scientific Reports</i> , <b>2018</b> , 8, 15919	4.9	9
345	Magnetic anisotropy phase-graded A1/L1 <sub>0</sub> -FePt films on amorphous glass substrates. <i>Materials and Design</i> , <b>2017</b> , 123, 147-153	8.1	7
344	A Novel Approach for Plastic-Bonded Magnets of the Type MQU-F Melt Spun NdFeGaB-Type Alloys. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-3	2	3
343	Magnetic anisotropy axis reorientation at ultrathin FePt films. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1600386	2.5	4
342	Synthesis, processing and characterization of FeMnGa nanoparticles for permanent magnet applications. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 6948-6953	1.4	
341	Geometrically Tunable Transverse Electric Field in Multilayered Structures. <i>Advances in Condensed Matter Physics</i> , <b>2017</b> , 2017, 1-4	1	0

340	Towards realization of bulk L10-FeNi <b>2017</b> ,		1
339	Investigation of magnetic coupling in FePt/spacer/FePt trilayers. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 445002	3	1
338	Structure and magnetic properties of Sm <sub>1-x</sub> Zr <sub>x</sub> Fe <sub>10</sub> Si <sub>2</sub> (x=0.2-0.6) alloys. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 903, 012033	0.3	2
337	Dependence of magnetic anisotropy on MgO sputtering pressure in Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> /MgO stacks. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 903, 012019	0.3	1
336	Processing of magnetically anisotropic MnBi particles by surfactant assisted ball milling. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 426, 691-697	2.8	32
335	Au and Ag sputter deposition on printer paper. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 939, 012032	0.3	1
334	Applying high-throughput computational techniques for discovering next-generation of permanent magnets. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2016</b> , 13, 942-950		4
333	Effect of Zr substitution on the structural and magnetic properties of the series Nd <sub>1-x</sub> Zr <sub>x</sub> Fe <sub>10</sub> Si <sub>2</sub> with the ThMn <sub>12</sub> type structure. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 687, 240-245	5.7	16
332	Sputtered tungsten/silver and tungsten/aluminium thin films for non-volatile magnetic memories applications. <i>Microelectronic Engineering</i> , <b>2016</b> , 159, 6-8	2.5	3
331	Nanometer Scale Hard/Soft Bilayer Magnetic Antidots. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 86	5	15
330	Coercivity and random interfacial exchange coupling in CoPt/Co films. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 123905	2.5	7
329	Ledge-type Co/L10-FePt exchange-coupled composites. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 233904	2.5	3
328	Magnetic properties engineering of nanopatterned cobalt antidot arrays. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 175004	3	10
327	Re-direction of dc magnetic flux in magnetically isotropic multilayered structures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 410, 226-229	2.8	1
326	Annealing effects on the structural and electrical properties of sputtered tungsten thin films. <i>Thin Solid Films</i> , <b>2016</b> , 619, 61-67	2.2	14
325	Structural and magnetic properties of strongly carbon doped Fe <sub>3</sub> Co thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 393, 479-483	2.8	11
324	Microstructure and magnetic properties of (0 01) textured L10 FePt films on amorphous glass substrate. <i>Applied Surface Science</i> , <b>2015</b> , 337, 118-124	6.7	16
323	Toward Rare-Earth-Free Permanent Magnets: A Combinatorial Approach Exploiting the Possibilities of Modeling, Shape Anisotropy in Elongated Nanoparticles, and Combinatorial Thin-Film Approach. <i>Jom</i> , <b>2015</b> , 67, 1318-1328	2.1	29

322	Thermal and Electric Cloaking Effect in Concentric Composite Made of Homogeneous Bulk and Porous Semiconductors. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 4663-4668	1.9	2
321	Perpendicular Magnetic Anisotropy on W-based Spin-Orbit Torque CoFeB MgO MRAM Stacks. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1729, 73-78		2
320	Optimization of L10 FePt/Fe45Co55 thin films for rare earth free permanent magnet applications. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 223909	2.5	17
319	Tailoring the magnetic anisotropy of CoFeB/MgO stacks onto W with a Ta buffer layer. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 262401	3.4	41
318	Thermoelectric power factor in nano- to microscale porous composites. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 2618-2627	2.5	6
317	Large magnetic anisotropy in strained Fe/Co multilayers on AuCu and the effect of carbon doping. <i>APL Materials</i> , <b>2015</b> , 3, 041103	5.7	15
316	Effect of Pore Size on Reduction of the Lattice Thermal Conductivity of Nano to Micro-Scale Porous Materials. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 3808-3811	1.9	5
315	Microwave Synthesis and Characterization of the Series Co <sub>1-x</sub> Fe <sub>x</sub> Sb <sub>3</sub> High Temperature Thermoelectric Materials. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 2637-2643	1.9	14
314	Lattice Thermal Conductivity in Nano- to Micro-scale Porous Materials. <i>Metallurgical and Materials Transactions E</i> , <b>2014</b> , 1, 145-152		
313	Study of microstructure and magnetic properties of L10FePt/SiO <sub>2</sub> thin films. <i>EPJ Web of Conferences</i> , <b>2014</b> , 75, 06014	0.3	
312	Deterioration of exchange bias in CoO-Co bilayers by the roughness of the ZnO substrates. <i>EPJ Web of Conferences</i> , <b>2014</b> , 75, 05011	0.3	
311	Computerized J-H loop tracer for soft magnetic thick films in the audio frequency range. <i>EPJ Web of Conferences</i> , <b>2014</b> , 75, 06004	0.3	1
310	Structural and Magnetic Properties of Fe Doped Mn-Ga Ribbons. <i>EPJ Web of Conferences</i> , <b>2014</b> , 75, 03004	0.3	2
309	Reduction of thermal conductivity in porous gray materials. <i>APL Materials</i> , <b>2014</b> , 2, 076107	5.7	21
308	Increased magnetocrystalline anisotropy in epitaxial Fe-Co-C thin films with spontaneous strain. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 213901	2.5	36
307	Extraordinary magnetization of amorphous TbDyFe films. <i>Microelectronic Engineering</i> , <b>2013</b> , 112, 183-187	2.5	14
306	The Superconducting Magnetoresistance Effect in Ni <sub>80</sub> Fe <sub>20</sub> /Nb/Ni <sub>80</sub> Fe <sub>20</sub> and Co/Nb/Co Trilayers: Requisites for Tailoring its Magnitude. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2013</b> , 26, 1931-1938	1.5	10
305	Structural and magnetic properties of L10/A1, FePt nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 325, 75-81	2.8	7

304	Seebeck coefficient of graded porous composites. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2316-2324	2.5	10
303	Magnetic and magnetoelastic properties of the TbDyFeCo system. <i>Microelectronic Engineering</i> , <b>2012</b> , 90, 149-151	2.5	1
302	Direct chemical synthesis of L10 FePt nanoparticles. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07A718	2.5	14
301	Synthesis of air stable FeCo nanoparticles. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07A313	2.5	36
300	The optical absorption of nanowire arrays. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2011</b> , 9, 163-167	2.6	19
299	Hydrogenation properties of the TiBx structures. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 12268-12278	6.7	5
298	Nonradiative surface electromagnetic waves at the interface of uniaxially bianisotropic enantiomeric media. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 1499-1504	1.3	8
297	Formation of L10 with (001) texture in magnetically annealed Co/Pt multilayers. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 083903	2.5	5
296	Hard/graded exchange spring composite media based on FePt. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07B729	2.5	22
295	Decoration of Carbon Nanotubes with CoO and Co Nanoparticles. <i>Journal of Nanomaterials</i> , <b>2011</b> , 2011, 1-9	3.2	8
294	Magnetization Process in Vortex-imprinted Ni80Fe20/Ir20Mn80Square Elements. <i>Journal of Magnetism</i> , <b>2011</b> , 16, 83-87	1.9	2
293	Synthesis of Biocompatible Magnetic Iron Oxide (Fe2O3 and Fe3O4) Nanoparticles by a Modified Polyol Process for Biomedical Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1256, 1		1
292	Magnetic properties of graded A1/L10 films obtained by heat treatment of FePt/CoPt multilayers. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 013903	2.5	30
291	Incoherent interaction of propagating spin waves with precessing magnetic moments. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	3
290	On the biocompatibility of Fe3O4 ferromagnetic nanoparticles with human blood cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 6110-5	1.3	12
289	Immobilization of magnetic iron oxide nanoparticles on laponite discs - an easy way to biocompatible ferrofluids and ferrogels. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5418-5428		46
288	Cornet-Like Phosphotriazine/Diamine Polymers as Reductant and Matrix for the Synthesis of Silver Nanocomposites with Antimicrobial Activity. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, NA-NA	3.9	2
287	Macromol. Mater. Eng. 2/2010. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 91-94	3.9	5

286	Enhanced magnetic properties of FePt nanoparticles codeposited on Ag nanoislands. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 093914	2.5	4
285	Correlation between crystallographic texture and the degree of L10-ordering in post-annealed Ag/CoPt bilayers and comparison with Ag/CoPt nanocomposites. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 153, 012060	0.3	6
284	Synthesis and magnetic properties of Fe <sub>3</sub> O <sub>4</sub> nanoparticles coated with biocompatible double hydrophilic block copolymer. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4753-9	1.3	6
283	Experimental investigation of electric and magnetic responses in composites with dielectric resonator inclusions at microwave frequencies. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 242506	3.4	6
282	Silver nanoparticles and graphitic carbon through thermal decomposition of a silver/acetylenedicarboxylic salt. <i>Nanoscale Research Letters</i> , <b>2009</b> , 4, 1358-64	5	16
281	Magnetic plasmon-polaritons in negative-index metallic antiferromagnets. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 1939-1944	1.3	3
280	Tailoring exchange bias in magnetic nanostructures. <i>Microelectronic Engineering</i> , <b>2009</b> , 86, 1063-1066	2.5	0
279	Synthesis and Exchange Bias in Fe <sub>2</sub> O <sub>3</sub> /CoO and Reverse CoO/Fe <sub>2</sub> O <sub>3</sub> Binary Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 14609-14614	3.8	24
278	Synthesis and Magnetic Properties of Pure Cubic CoO Nanocrystals and Nanoaggregates. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 3353-3358	3.5	13
277	Polypyrrole/MWNT nanocomposites synthesized through interfacial polymerization. <i>Synthetic Metals</i> , <b>2009</b> , 159, 632-636	3.6	48
276	Magnetization reversal in CoPt(111) hard/soft bilayers. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 063908	2.5	13
275	Dye-sensitization of self-assembled titania nanotubes prepared by galvanostatic anodization of Ti sputtered on conductive glass. <i>Nanotechnology</i> , <b>2009</b> , 20, 365601	3.4	48
274	Biocompatibility and Solubility of Fe <sub>3</sub> O <sub>4</sub> -BSA Conjugates with Human Blood. <i>Current Nanoscience</i> , <b>2009</b> , 5, 177-181	1.4	18
273	A general chemical route for the synthesis of capped nanocrystalline materials. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 3117-22	1.3	12
272	Bare and protein-conjugated Fe <sub>3</sub> O <sub>4</sub> ferromagnetic nanoparticles for utilization in magnetically assisted hemodialysis: biocompatibility with human blood cells. <i>Nanotechnology</i> , <b>2008</b> , 19, 505101	3.4	23
271	Engineering of FePt nanoparticles by e-beam co-evaporation. <i>Nanotechnology</i> , <b>2008</b> , 19, 135702	3.4	5
270	FePt and CoPt nanoparticles co-deposited on silicon dioxide-a comparative study. <i>Nanotechnology</i> , <b>2008</b> , 19, 085701	3.4	10
269	Structure and magnetic properties of Sm(Co <sub>0.74</sub> Fe <sub>0.1</sub> Cu <sub>0.12</sub> Zr <sub>0.04</sub> ) <sub>8</sub> melt-spun nanostructured alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 152, 81-85	3.1	6

268	Investigation of top gate electrode options for high-k gate dielectric MOS capacitors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 3626-3629		
267	ZnO nanorod growth based on a low-temperature silicon-compatible combinatorial method. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 3809-3812		4
266	Effect of deposition pressure and post deposition annealing on SmCo thin film properties. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 3759-3762		4
265	Anomalous refraction of backward waves in ferromagnetic semiconductor superlattices in the presence of an external magnetic field. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 154-158	1.3	11
264	Synthesis and characterization of 2-D and 3-D covalent networks derived from triazine central cores and bridging aromatic diamines. <i>Polymer</i> , <b>2008</b> , 49, 1137-1144	3.9	9
263	Magnetization reversal in CoPt-based hard/soft homocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 1020-1025	2.8	7
262	Voltage-induced modification in magnetic coercivity of patterned Co <sub>50</sub> Fe <sub>50</sub> thin film on piezoelectric substrate. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 1050-1055	2.8	20
261	Structural, microstructural and magnetic properties of nanocomposite isotropic Sm(Co <sub>0.1</sub> Fe <sub>0.1</sub> MyZr <sub>0.04</sub> B <sub>0.04</sub> ) <sub>7.5</sub> ribbons with M=Ni, Cu and y=0.09 and 0.12. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 2322-2329	2.8	16
260	Magnetic measurements in thin film specimens: Rejecting the contribution of the substrate. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 3264-3271	2.8	3
259	A study on the macroscopic properties of hard/soft bilayers. <i>Physica B: Condensed Matter</i> , <b>2008</b> , 403, 320-323	2.8	6
258	Influence of quantum Hall effect on wave refraction in ferrite-semiconductor superlattices. <i>Metamaterials</i> , <b>2008</b> , 2, 213-219		1
257	Negative refraction of low-frequency electromagnetic waves. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2008</b> , 2, 239-241	2.5	1
256	Direct Chemical Synthesis of L10FePt Nanostructures. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1898-1900	9.6	20
255	Synthesis and self-organization of Au nanoparticles. <i>Nanotechnology</i> , <b>2007</b> , 18, 485604	3.4	29
254	Effect of magnetic field on metal/insulator transitions in Bi-wire structures. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1528-1531	2.5	
253	Exchange bias in ferromagnetic/antiferromagnetic submicron structures. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1536-1539	2.5	1
252	Characterization, magnetic and transport properties of polyaniline synthesized through interfacial polymerization. <i>Polymer</i> , <b>2007</b> , 48, 3162-3169	3.9	82
251	Ordering kinetics of chemically synthesized FePt nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e169-e172	2.8	10

250	Reduction of annealing temperature for the growth of the hard magnetic phase of CoPt in Cu/CoPt bilayers grown on Si(001). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e166-e168	2.8	12
249	Synthesis of tunable sized capped magnetic iron oxide nanoparticles highly soluble in organic solvents. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 4996-5002	4.3	21
248	Interfacial polymerization of pyrrole and in situ synthesis of polypyrrole/silver nanocomposites. <i>Polymer</i> , <b>2007</b> , 48, 2007-2013	3.9	129
247	Implementation of hard magnetic thin films on suspended cantilevers for electromagnetic energy harvesters <b>2007</b> ,		1
246	Large-scale synthesis, size control, and anisotropic growth of gamma-Fe <sub>2</sub> O <sub>3</sub> nanoparticles: organosols and hydrosols. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 2753-7	1.3	10
245	Structural and Magnetic Properties of Sm <sub>3</sub> (Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>27.7</sub> Ti <sub>1.3</sub> . <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 3767-3769	2	4
244	Synthesis and characterization of monodispersed rhodium nanoparticles organized in 3-D symmetrical structures soluble in organic media. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2081-3	1.3	3
243	The effect of Mn doping in FePt nanoparticles on the magnetic properties of the L1(0) phase. <i>Nanotechnology</i> , <b>2006</b> , 17, 4270-3	3.4	17
242	Chemical synthesis and characterization of hcp Ni nanoparticles. <i>Nanotechnology</i> , <b>2006</b> , 17, 3750-3755	3.4	107
241	Critical radius for exchange bias in naturally oxidized Fe nanoparticles. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	97
240	Synthesis, characterization and thermal properties of polymer/magnetite nanocomposites. <i>Nanotechnology</i> , <b>2006</b> , 17, 2046-2053	3.4	74
239	Preparation of Nd-Fe-B Magnets by Screen Printing. <i>Journal of Iron and Steel Research International</i> , <b>2006</b> , 13, 405-410	1.2	2
238	Characterization, electrical and magnetic properties of polyaniline/maghemite nanocomposites. <i>Nanotechnology</i> , <b>2006</b> , 17, 5019-5026	3.4	25
237	Effective negative refractive index in ferromagnet-semiconductor superlattices. <i>Optics Express</i> , <b>2006</b> , 14, 5433-44	3.3	26
236	Structure and magnetic properties of Gd <sub>4</sub> (Co,Ti) <sub>41</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 423, 59-61	5.7	1
235	Synthesis and characterization of a $\pi$ -conjugate, covalent layered network derived from condensation polymerization of the 4,4'-bipyridine-cyanuric chloride couple. <i>European Polymer Journal</i> , <b>2006</b> , 42, 2940-2948	5.2	11
234	Modulation of the properties of a low-T <sub>c</sub> superconductor by anisotropic ferromagnetic particles. <i>Physica C: Superconductivity and Its Applications</i> , <b>2006</b> , 437-438, 289-292	1.3	4
233	Synthesis and characterization of 3D CoPt nanostructures. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 13756-7	16.4	101



232	Deposition of hard magnetic SmCo <sub>5</sub> thin films by magnetron sputtering. <i>Journal of Physics: Conference Series</i> , <b>2005</b> , 10, 175-177	0.3	4
231	Structure and magnetic properties of Sm(Co <sub>1-x</sub> M <sub>x</sub> ) <sub>5</sub> (M = Cu, Ag) alloys. <i>Journal of Materials Processing Technology</i> , <b>2005</b> , 161, 173-175	5.3	2
230	Investigation of particle formation and superstructure development in FePt nanoparticles and their effect on magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 294, 232-238	2.8	10
229	Synthesis and characterization of L10 FePt nanoparticles from Pt/Fe <sub>3</sub> O <sub>4</sub> core-shell nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 294, e95-e98	2.8	26
228	Nd-Fe-B thick films prepared by screen printing. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3901-3903	2	10
227	Synthesis and Characterization of L10 FePt Nanoparticles from Pt(Au, Ag)/Fe <sub>2</sub> O <sub>3</sub> Core-Shell Nanoparticles. <i>Advanced Materials</i> , <b>2005</b> , 17, 2188-2192	24	24
226	Extraordinary Hall effect in [Pt/Co] <sub>15</sub> /AF/[Co/Pt] <sub>15</sub> (AF=NiO, FeMn) multilayers with perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 1056-1058	2.8	
225	CoPt nanoparticles deposited by electron beam evaporation. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 544-546	2.8	27
224	Optimized synthesis and annealing conditions of L10FePt nanoparticles. <i>Nanotechnology</i> , <b>2005</b> , 16, 1603-1607	3.1	23
223	Synthesis of CoPt nanoparticles by a modified polyol method: characterization and magnetic properties. <i>Nanotechnology</i> , <b>2005</b> , 16, 287-91	3.4	55
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105	Changes induced in the Raman spectra of SmBa <sub>2</sub> Sr <sub>x</sub> Cu <sub>3</sub> O <sub>y</sub> , the redistribution of carriers and the orthorhombic-to-tetragonal phase transition. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 1177-1178	1.3	1
104	Raman spectroscopy of Fe doped YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 1181-1182	1.3	2
103	Sr-substitution-dependent mixing of the (Ba,Sr)-Ag and Cu <sub>2</sub> -Ag phonons in NdBa <sub>2</sub> Sr <sub>x</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> (0 < x < 1). <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 235-240, 1187-1188	1.3	3
102	Enhancement in flux pinning by Ca in YSrBaCu <sub>2.95</sub> Ga <sub>0.05</sub> O <sub>6+z</sub> . <i>Applied Superconductivity</i> , <b>1994</b> , 2, 373-375		
101	Stability range, structure and magnetic properties of YFe <sub>12</sub> Mo <sub>x</sub> (0.5 < x < 2.0) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 131, 157-166	2.8	24
100	Estimation of the exchange constants in the Fe sublattice of the Y <sub>2</sub> Fe <sub>17</sub> and Y <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> compounds from the analysis of Mössbauer measurements. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 130, 57-62	2.8	11
99	Magnetic Structure of the Oxygen-Deficient Perovskite YBaCuFeO <sub>5+<math>\delta</math></sub> . <i>Inorganic Chemistry</i> , <b>1994</b> , 33, 1255-1258	5.1	28
98	The anisotropic magnetoresistance in Fe/Pt compositionally modulated films. <i>Journal of Physics Condensed Matter</i> , <b>1994</b> , 6, 8187-8195	1.8	7
97	The effect of shape anisotropy on the spin reorientation in Nd <sub>2</sub> Fe <sub>14</sub> B films. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 205, 45-47	5.7	2
96	. <i>IEEE Transactions on Magnetics</i> , <b>1993</b> , 29, 3147-3149	2	9
95	. <i>IEEE Transactions on Magnetics</i> , <b>1993</b> , 29, 3171-3173	2	39
94	Bi <sub>1-x</sub> Sr <sub>x</sub> Ca <sub>1-x</sub> Cu <sub>1-x</sub> O superconducting films by plasma sputtering of nanocrystalline compound targets. <i>Scripta Materialia</i> , <b>1993</b> , 2, 81-90		1
93	Experimental studies of the EuBa <sub>2-x</sub> Eu <sub>x</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> compound in the tetragonal phase. <i>Journal of Physics Condensed Matter</i> , <b>1993</b> , 5, 229-234	1.8	2
92	Magnetic phase transitions in RFe <sub>10</sub> Mo <sub>2</sub> compounds. <i>Journal of Physics Condensed Matter</i> , <b>1993</b> , 5, 8611-8620	1.8	14
91	Hall-effect study of bulk YBa <sub>2</sub> Cu <sub>3-x</sub> Fe <sub>x</sub> O <sub>y</sub> (0 < x < 1). <i>Physical Review B</i> , <b>1993</b> , 48, 15992-15998	3.3	9
90	Synthesis of Nd(FeTi) <sub>12</sub> films by sputtering. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 3528-3530	3.4	6
89	Structural and superconducting properties of Sm <sub>1-x</sub> Ta <sub>x</sub> SrBaCu <sub>3</sub> O <sub>6+<math>\delta</math></sub> (x=0, 0.05 and 0.1). <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 213, 88-94	1.3	10



88	Irreversibility line of $Y_{1-x}Ca_xSrBaCu_{2.9}Co_{0.1}O_{6+z}$ (0. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 214, 277-285	1.3	10
87	EPR of $Tm^{2+}$ in the Tetragonal Phase of the $(Lu, Tm)Ba_2Cu_3O_{7-\delta}$ System. <i>Physica Status Solidi (B): Basic Research</i> , <b>1993</b> , 175, K61-K62	1.3	1
86	Magnetic and EPR Studies of Oxygenated and Non-Oxygenated $LaBaSrCu_3O_{6+x}$ Compounds in the Tetragonal Phase. <i>Physica Status Solidi (B): Basic Research</i> , <b>1993</b> , 180, 491-501	1.3	9
85	Structure and magnetic anisotropy of Fe/Pt multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1993</b> , 120, 236-238	2.8	13
84	. <i>IEEE Transactions on Magnetics</i> , <b>1993</b> , 29, 3141-3143	2	
83	Electron paramagnetic resonance studies of the oxygenated and non-oxygenated $LaBa_2Cu_3O_{7-\delta}$ compounds. <i>Journal of Physics Condensed Matter</i> , <b>1992</b> , 4, 4261-4266	1.8	5
82	Mössbauer and crystal-structure study of $YSr_2Cu_2FeO_y$ isomorphic with $YBa_2(Cu_{1-x}Fe_x)_3O_y$ . <i>Physical Review B</i> , <b>1992</b> , 46, 14119-14125	3.3	13
81	. <i>IEEE Transactions on Magnetics</i> , <b>1992</b> , 28, 2190-2192	2	27
80	Effect of the Mn substitution on the $YBa_2Cu_3-xMn_xO_y$ superconductor (0. <i>Superconductor Science and Technology</i> , <b>1992</b> , 5, 56-59	3.1	12
79	Low-Temperature Dependence of the EPR Spectra of $Gd_{0.5}RE_{0.5}Ba_2Cu_3O_{7-\delta}$ Compounds in the Tetragonal Phase. <i>Physica Status Solidi (B): Basic Research</i> , <b>1992</b> , 170, 597-607	1.3	9
78	On the Electrical Conductivity of $Pr_xRE_{1-x}Ba_2Cu_3O_{7-\delta}$ (RE = Er, Yb, Lu, Tm): Compounds in Orthorhombic Phase. <i>Physica Status Solidi (B): Basic Research</i> , <b>1992</b> , 171, 469-475	1.3	7
77	XRD EPR studies of ceramics $Pr_{0.5}Re_{0.5}Ba_2Cu_3O_{7-\delta}$ in the orthorhombic and tetragonal phase. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1992</b> , 5, 457-461		4
76	Superconductivity of $Pr_{0.5}R_{0.5}Ba_2Cu_3O_{7-\delta}$ system and the existence of a critical ion radius for suppression of superconductivity in $R_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ . <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 196, 90-94	1.3	7
75	Quantitative analysis and studies of the transformation from $Bi_2Sr_2CaCu_2O_{8+x}$ to $Bi_2Sr_2Ca_2Cu_3O_{10+x}$ using Rietveld analysis and AC-susceptibility. <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 196, 157-163	1.3	8
74	Synthesis, thermogravimetric and $^{57}Fe$ Mössbauer studies of the oxygen deficient perovskite $REBaCuFeO_5 + x$ series (RE = Y, Nd, Sm, Gd, Dy, Tm, Lu). <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 192, 35-40	1.3	53
73	Temperature dependence of the EPR spectra of $EuBa_2Cu_3O_{7-\delta}$ in orthorhombic and tetragonal phases. <i>Journal of Physics and Chemistry of Solids</i> , <b>1992</b> , 53, 211-213	3.9	2
72	Amorphous wires in displacement sensing techniques. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 116, 177-188	2.8	26
71	EPR spectrum of $Tm^{2+}$ ions in the tetragonal phase of $(La, Tm)-Ba-Cu-O$ compound. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 563-564	2.8	2

70	XRD and magnetic measurements on the series REBaSrCu <sub>3</sub> O <sub>y</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 568-570	2.8	7
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68	Mössbauer and magnetic studies of the R <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> (R = Lu, Sm) intermetallic compounds. <i>Solid State Communications</i> , <b>1991</b> , 77, 11-16	1.6	29
67	Nitrogenation of the RFe <sub>10</sub> Mo <sub>2</sub> (R = rare earth) compounds with ThMn <sub>12</sub> type structure. <i>Solid State Communications</i> , <b>1991</b> , 78, 681-684	1.6	48
66	Magnetic moments of Y(Fe-Co) <sub>12-x</sub> T <sub>x</sub> alloys: A modified magnetic valence approach. <i>Physica B: Condensed Matter</i> , <b>1991</b> , 175, 329-336	2.8	10
65	Mössbauer studies of the series Bi <sub>2-x</sub> Pb <sub>x</sub> Sr <sub>2</sub> Bi <sub>n</sub> FenO <sub>y</sub> for x = 0.5, 1 and n = 2, 3. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 176, 227-234	1.3	2
64	Crystallographic, thermogravimetric and magnetization study of the YBa <sub>2</sub> Cu <sub>3-x</sub> FexO <sub>yz</sub> superconductor (0 ≤ x ≤ 2, 6 ≤ y ≤ 7). <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 174, 316-320	1.3	22
63	Quantitative analysis and studies of the evolution of the transformation from Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> to Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10+x</sub> with the Rietveld method. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 485-486	1.3	4
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61	Crystallographic, thermogravimetric and magnetization study of the YBa <sub>2</sub> Cu <sub>3-x</sub> MnxO <sub>y</sub> superconductor (0 ≤ x ≤ 0.08, 6 ≤ y ≤ 7). <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 555-556	1.3	4
60	Temperature Dependence of the EPR spectra of GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> Orthorhombic and Tetragonal Compounds with Impurity Phases. <i>Physica Status Solidi (B): Basic Research</i> , <b>1991</b> , 163, K89-K94	1.3	11
59	Electron spin resonance of coupled pairs of Cu <sup>2+</sup> ions in Pr <sub>0.5</sub> Dy <sub>0.5</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> and Sm <sub>0.5</sub> Gd <sub>0.5</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> compounds in the tetragonal phase. <i>Physica Status Solidi (B): Basic Research</i> , <b>1991</b> , 164, K105-K108	1.3	7
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51	INVESTIGATION OF THE SAMARIUM ROLE IN THE PHYSICAL PROPERTIES OF Sm <sub>0.5</sub> Re <sub>0.5</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> COMPOUNDS IN THE ORTHORHOMBIC AND TETRAGONAL STRUCTURES. <i>Modern Physics Letters B</i> , <b>1991</b> , 05, 969-984	1.6	7
50	. <i>IEEE Transactions on Magnetics</i> , <b>1990</b> , 26, 1736-1738	2	
49	. <i>IEEE Transactions on Magnetics</i> , <b>1990</b> , 26, 1798-1800	2	27
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47	Phase constitution and coercivity of Pr <sub>2</sub> Fe <sub>7</sub> B <sub>3</sub> alloys produced by melt spinning. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1990</b> , 83, 246-248	2.8	4
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44	The optimum percentage of Pb and the appropriate thermal procedure for the preparation of the 110 K Bi <sub>2-x</sub> Pb <sub>x</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> superconductor. <i>Superconductor Science and Technology</i> , <b>1990</b> , 3, 128-133	3.1	30
43	Magnetic hysteresis and Mössbauer studies in ultrafine iron particles. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 4487-4489	2.5	64
42	Mössbauer studies of the system Bi <sub>2</sub> Sr <sub>1+n</sub> FenO <sub>x</sub> (n = 2,3) isostructural with the high T <sub>c</sub> superconductors Bi <sub>2</sub> Sr <sub>2</sub> Can <sub>1-n</sub> CunO <sub>x</sub> (n = 2,3). <i>Journal of the Less Common Metals</i> , <b>1990</b> , 164-165, 581-587		1
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39	Mössbauer spectroscopy in modern permanent magnet alloys. <i>Hyperfine Interactions</i> , <b>1989</b> , 49, 367-392	0.8	9
38	Preparation of the 110 K high T <sub>c</sub> superconductor Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> by Pb and Sb substitution. <i>Physica C: Superconductivity and Its Applications</i> , <b>1989</b> , 159, 643-648	1.3	28
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36	Intrinsic and Extrinsic Magnetic Properties of Rare Earth-Transition Metal-Metalloid Alloys <b>1989</b> , 109-121		
35	Temperature dependence of Doppler broadening of the annihilation line in a high T <sub>c</sub> superconductor. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1988</b> , 128, 97-99	2.3	18

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31	Mössbauer studies of the high-T <sub>c</sub> superconductor YBa <sub>2</sub> (Cu <sub>1-x</sub> Fe <sub>x</sub> ) <sub>3</sub> O <sub>7-δ</sub> (x=0.033). <i>Physical Review B</i> , <b>1988</b> , 38, 8931-8935	3.3	18
30	Origin of high coercivities in as-cast SmFe <sub>4-x</sub> Ni <sub>x</sub> B alloys. <i>IEEE Transactions on Magnetics</i> , <b>1987</b> , 23, 3613-3615		
29	Magnetic properties of the R <sub>1+e</sub> Fe <sub>4</sub> B <sub>4</sub> compounds (R = rare earth) from magnetization and Mössbauer measurements. <i>Solid State Communications</i> , <b>1986</b> , 59, 389-391	1.6	31
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27	Temperature variation of the spin reorientation in Er <sub>2-x</sub> Dy <sub>x</sub> Fe <sub>14</sub> B alloys. <i>Solid State Communications</i> , <b>1986</b> , 59, 669-672	1.6	19
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24	Magnetic properties of REFe <sub>2</sub> Si <sub>2</sub> compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1983</b> , 36, 61-65	2.8	38
23	Magnetic properties of intermetallic hydrides. <i>Journal of the Less Common Metals</i> , <b>1983</b> , 94, 37-44		17
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21	<sup>169</sup> Tm Mössbauer spectroscopy and crystal field calculations in TmNi <sub>3</sub> and TmCo <sub>3</sub> intermetallics. <i>Journal of Physics and Chemistry of Solids</i> , <b>1983</b> , 44, 307-309	3.9	5
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11	<sup>166</sup> Er Mössbauer and X-ray diffraction study of ErMn <sub>2</sub> hydrides. <i>Journal of the Less Common Metals</i> , <b>1980</b> , 73, 265-271		23
10	Structural and magnetic properties of DyFe <sub>3</sub> hydrides. <i>Journal of the Less Common Metals</i> , <b>1980</b> , 73, 283-290		16
9	Surface segregation of iron by hydrogenation of FeTi: An <sup>57</sup> Fe Mössbauer conversion electron study. <i>Journal of the Less Common Metals</i> , <b>1980</b> , 73, 171-173		29
8	Neutron Scattering Studies of Hydrides of the Laves Phase Rare Earth Compounds RFe <sub>2</sub> <b>1980</b> , 569-570		5
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5	Magnetic susceptibility and Moessbauer effect studies of some anionic iron(IV) dithio chelates. <i>Inorganic Chemistry</i> , <b>1979</b> , 18, 505-509	5.1	10
4	Mössbauer effect investigations of the electronic and magnetic properties of rare earth metal and intermetallic hydrides. <i>Journal of Applied Physics</i> , <b>1979</b> , 50, 7682	2.5	32
3	Magnetic and structural properties of ErFe <sub>3</sub> H <sub>x</sub> hydrides. <i>Journal of Applied Physics</i> , <b>1979</b> , 50, 7690	2.5	21
2	Mössbauer study of BIS(N,N-diisopropyldithiocarbamate)iron(III) halides. <i>Chemical Physics</i> , <b>1978</b> , 31, 369-374		4
1	High coercivity in boron substituted Sm-Co melt-spun magnets		1