# K Hono

List of Publications by Year
in descending order



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|---|---|---|---|
| 956 papers | 46,859 citations | 1229 113 h-index | 6512 162 g-index |
| 994 all docs | 994 docs citations | 994 times ranked | 17228 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Optimization of direct extrusion process for Nd-Fe-B magnets using active learning assisted by machine learning and Bayesian optimization. Scripta Materialia, 2022, 209, 114341. | 2.6 | 11 |
| 2 | Foreword to the Focus Issue: science and technology of element-strategic permanent magnets. Science and Technology of Advanced Materials, 2022, 23, 64-65. | 2.8 | 4 |
| 3 | Strengthening by customizing microstructural complexity in nitrogen interstitial CoCrFeMnNi high-entropy alloys. Journal of Alloys and Compounds, 2022, 901, 163483. | 2.8 | 8 |
| 4 | Most Frequently Asked Questions about the Coercivity of Nd-Fe-B Permanent Magnets. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2022, 69, S38-S51. | 0.1 | 1 |
| 5 | Role of homogenization on tensile properties and microstructures in a dilute Mgâ€“Znâ€“Caâ€“Mn alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142541. | 2.6 | 8 |
| 6 | Nanoscale-Thick Ni-Based Half-Heusler Alloys with Structural Ordering-Dependent Ultralow Magnetic Damping: Implications for Spintronic Applications. ACS Applied Nano Materials, 2022, 5, 569-577. | 2.4 | 6 |
| 7 | Recent Advances in 3D Atom Probe Analysis. Materia Japan, 2022, 61, 72-77. | 0.1 | 0 |
| 8 | Effect of microstructure on the electrical conductivity of p-type Feâ€“Alâ€“Si thermoelectric materials. Journal of Alloys and Compounds, 2022, 903, 163835. | 2.8 | 5 |
| 9 | Coercivity engineering in Sm(Fe0.8Co0.2)12B0.5 thin films by Si grain boundary diffusion. Acta Materialia, 2022, 227, 117716. | 3.8 | 15 |
| 10 | Transmission electron microscopy image based micromagnetic simulations for optimizing nanostructure of FePt-X heat-assisted magnetic recording media. Acta Materialia, 2022, 227, 117744. | 3.8 | 16 |
| 11 | Epitaxial all-bcc-Co50Fe50/Cu/Co50Fe50 current-in-plane giant magnetoresistive spin-valves on Si(001) substrate. Journal of Magnetism and Magnetic Materials, 2022, 551, 169154. | 1.0 | 0 |
| 12 | (Nd,La,Ce)-Fe-B hot-deformed magnets for application of variable-magnetic-force motors. Acta Materialia, 2022, 228, 117747. | 3.8 | 10 |
| 13 | Development of Co-lean (Sm,Y)(Fe,Co,Ti)<sub>12</sub> compounds with large saturation magnetization. Applied Physics Express, 2022, 15, 045505. | 1.1 | 4 |
| 14 | Development of corrosion-resistant Mg-Al-Ca-Mn-Zn alloy sheet with good tensile properties and stretch formability. Journal of Alloys and Compounds, 2022, 910, 164752. | 2.8 | 15 |
| 15 | Magnetic refrigeration material operating at a full temperature range required for hydrogen liquefaction. Nature Communications, 2022, 13, 1817. | 5.8 | 64 |
| 16 | Microtexture-induced anomalous anisotropic tensile behavior in Mgâ€“Alâ€“Zn alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 143002. | 2.6 | 4 |
| 17 | Peculiar behavior of V on the Curie temperature and anisotropy field of SmFe12-xVx compounds. Acta Materialia, 2022, 232, 117928. | 3.8 | 10 |
| 18 | Effect of annealing on microstructure evolution and age-hardening behavior of dilute Mgâ€“Alâ€“Caâ€“Mn alloy. Journal of Materials Research and Technology, 2022, 18, 1754-1762. | 2.6 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetization Reversals of Nd-Fe-B-Based Magnets with Different Microstructural Features. Jom, 2022, 74, 2328-2337. | 0.9 | 1 |
| 20 | Machine learning assisted development of Fe2P-type magnetocaloric compounds for cryogenic applications. Acta Materialia, 2022, 232, 117942. | 3.8 | 14 |
| 21 | Microstructure and atomic order analyses in CoFeCrAl Heusler alloy thin films: Interpretation of spin gapless semiconductor-like transport properties. Acta Materialia, 2022, 232, 117958. | 3.8 | 5 |
| 22 | Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/Mo/CoFeB/MgO junctions. Journal Physics D: Applied Physics, 2022, 55, 275003. | 1.3 | 3 |
| 23 | Fabrication of (Bi<sub>2</sub>)<sub>m</sub>(Bi<sub>2</sub>Te<sub>3</sub>)<sub>n</sub> superlattice films by Te desorption from a pristine Bi<sub>2</sub>Te<sub>3</sub> film. Applied Physics Letters, 2022, 120, 173102. | 1.5 | 2 |
| 24 | Dynamic recrystallization behavior of as-cast AZ91 magnesium alloy during hot compressive. Journal of Materials Research and Technology, 2022, 18, 5116-5125. | 2.6 | 7 |
| 25 | Atomic-scale investigation of implanted Mg in GaN through ultra-high-pressure annealing. Journal of Applied Physics, 2022, 131, . | 1.1 | 8 |
| 26 | Role of Zn on the rapid age-hardening in Mg-Ca-Zn alloys. Scripta Materialia, 2022, 216, 114735. | 2.6 | 8 |
| 27 | Machine Learning Approach for Evaluation of Nanodefects and Magnetic Anisotropy in FePt Granular Films. Scripta Materialia, 2022, 218, 114797. | 2.6 | 3 |
| 28 | Dynamic microstructure evolution and mechanical properties of dilute Mg-Al-Ca-Mn alloy during hot rolling. Journal of Materials Science and Technology, 2022, 129, 1-14. | 5.6 | 21 |
| 29 | Identifying the mechanism of hard magnet coercivity by its angular dependence. Physical Review B, 2022, 105, . | 1.1 | 4 |
| 30 | Role of grain boundary segregation on microstructural development in basal-textured Mg-Al-Zn alloy sheet. Scripta Materialia, 2022, 218, 114828. | 2.6 | 18 |
| 31 | Effect of Ultraâ€Highâ€Pressure Annealing on Defect Reactions in Ionâ€Implanted GaN Studied by Positron Annihilation. Physica Status Solidi (B): Basic Research, 2022, 259, . | 0.7 | 7 |
| 32 | Structural insight using anomalous XRD into Mn2CoAl Heusler alloy films grown by magnetron sputtering, IBAS, and MBE techniques. Acta Materialia, 2022, 235, 118063. | 3.8 | 2 |
| 33 | Improvement in perpendicular magnetic anisotropy and its voltage control efficiency in CoFeB/MgO tunnel junctions with Ta/Mo layered adhesion structures. Journal of Applied Physics, 2022, 131, 213901. | 1.1 | 1 |
| 34 | Prediction of half-metallic gap formation and Fermi level position in Co-based Heusler alloy epitaxial thin films through anisotropic magnetoresistance effect. Physical Review Materials, 2022, 6, . | 0.9 | 6 |
| 35 | Effect of grain boundary segregation on microstructure and mechanical properties of ultra-fine grained Mgâ€“Alâ€“Caâ€“Mn alloy wires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143423. | 2.6 | 11 |
| 36 | Effect of microalloyed Al and Ca on mechanical properties and corrosion resistance of high-speed extruded Mg-2Zn-1Mn (mass%) alloy. Materials Characterization, 2022, 191, 112121. | 1.9 | 5 |

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|---|---|---|---|
| 37 | Quasi-in-situ observing the rare earth texture evolution in an extruded Mg-Zn-Gd alloy with bimodal microstructure. Journal of Magnesium and Alloys, 2021, 9, 1797-1805. | 5.5 | 40 |
| 38 | Heating rate dependence of coercivity and microstructure of Feâ€“Bâ€“Pâ€“Cu nanocrystalline soft magnetic materials. Journal of Alloys and Compounds, 2021, 859, 157832. | 2.8 | 16 |
| 39 | X-ray diffraction and in situ pressurization of dentine apatite reveals nanocrystal modulus stiffening upon carbonate removal. Acta Biomaterialia, 2021, 120, 91-103. | 4.1 | 9 |
| 40 | Intrinsic magnetic properties of (Sm,Gd)Fe12-based compounds with minimized addition of Ti. Journal of Alloys and Compounds, 2021, 855, 157491. | 2.8 | 19 |
| 41 | Improved coercivity and squareness in bulk hot-deformed Ndâ€“Feâ€“B magnets by two-step eutectic grain boundary diffusion process. Acta Materialia, 2021, 203, 116479. | 3.8 | 51 |
| 42 | Quantitative analysis of sulfur segregation at the oxide/substrate interface in Ni-base single crystal superalloy. Scripta Materialia, 2021, 194, 113616. | 2.6 | 17 |
| 43 | SmFe12-based hard magnetic alloys prepared by reduction-diffusion process. Journal of Alloys and Compounds, 2021, 861, 157993. | 2.8 | 13 |
| 44 | (Pr0.75Ce0.25)-Fe-B hot-deformed magnets for cryogenic applications. Scripta Materialia, 2021, 194, 113648. | 2.6 | 9 |
| 45 | Achieving an ultra-high strength and moderate ductility in Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy via a decreased-temperature multi-directional forging. Materials Characterization, 2021, 171, 110804. | 1.9 | 38 |
| 46 | Room-temperature stretch formability, tensile properties, and microstructures of precipitation hardenable Mgâ€“6Zn-0.2Ca (mass%) alloy sheets micro-alloyed with Ce or Y. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140563. | 2.6 | 12 |
| 47 | Relationship between the microstructure, local magnetism and coercivity in Ga-containing Nd-Fe-B sintered magnets. Acta Materialia, 2021, 205, 116517. | 3.8 | 24 |
| 48 | Simultaneously Enhanced Mechanical Properties and Damping Capacities of ZK60 Mg Alloys Processed by Multi-Directional Forging. Acta Metallurgica Sinica (English Letters), 2021, 34, 265-277. | 1.5 | 8 |
| 49 | Improving room-temperature stretch formability of a high-alloyed Mgâ€“Alâ€“Caâ€“Mn alloy sheet by a high-temperature solution-treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 801, 140399. | 2.6 | 26 |
| 50 | Exceeding 400% tunnel magnetoresistance at room temperature in epitaxial Fe/MgO/Fe(001) spin-valve-type magnetic tunnel junctions. Applied Physics Letters, 2021, 118, . | 1.5 | 27 |
| 51 | Impact of oxygen on band structure at the Ni/GaN interface revealed by hard X-ray photoelectron spectroscopy. Applied Physics Letters, 2021, 118, 121603. | 1.5 | 4 |
| 52 | Positive linear magnetoresistance effect in disordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>L</mml:mi><mml:msub><mml:mn>2</mml:mn><mml:mn><mml:mr -type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mn>2</mml:m epitaxial films. Physical Review B, 2021, 103, . | 1.1 | 15 |
| 53 | Prospects for the development of SmFe12-based permanent magnets with a ThMn12-type phase. Scripta Materialia, 2021, 194, 113686. | 2.6 | 37 |
| 54 | Intrinsic hard magnetic properties of Sm(Fe,Co)12â^'xTix compound with ThMn12 structure. Journal of Alloys and Compounds, 2021, 861, 158477. | 2.8 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Elucidation of the strong effect of an interfacial monolayer on magnetoresistance in giant magnetoresistive devices with current perpendicular to the plane. Physical Review B, 2021, 103, . | 1.1 | 8 |
| 56 | Large linear sensitivity of asymmetric structured giant magnetoresistive device with metastable bcc-Cu spacer and auxiliary biquadratic coupling through Rh spacer. Journal Physics D: Applied Physics, 2021, 54, 255004. | 1.3 | 3 |
| 57 | Magnetic properties and microstructure of Sm5Fe17-based composite magnets. Acta Materialia, 2021, 212, 116912. | 3.8 | 5 |
| 58 | Most frequently asked questions about the coercivity of Nd-Fe-B permanent magnets. Science and Technology of Advanced Materials, 2021, 22, 386-403. | 2.8 | 47 |
| 59 | Phase relations and extrinsic magnetic properties of Smâ€“(Fe,Co)â€“Tiâ€“(Ga)-based alloys for ThMn12-type permanent magnets. Journal of Magnetism and Magnetic Materials, 2021, 529, 167866. | 1.0 | 15 |
| 60 | Role of V on the coercivity of SmFe12-based melt-spun ribbons revealed by machine learning and microstructure characterizations. Scripta Materialia, 2021, 200, 113925. | 2.6 | 18 |
| 61 | Origin of coercivity in an anisotropic Sm(Fe,Ti,V)12-based sintered magnet. Acta Materialia, 2021, 217, 117161. | 3.8 | 20 |
| 62 | First-principles disordered local-moment study on temperature dependence of spin polarization in Co2Fe(Ga0.5Ge0.5) Heusler alloy. Acta Materialia, 2021, 218, 117218. | 3.8 | 7 |
| 63 | Systematic investigation of the effect of layer thickness on the linear sensing characteristics of asymmetric structured CoFe/Rh/CoFe/Cu/CoFe fully epitaxial CIP-GMR based magnetic sensors. Journal of Magnetism and Magnetic Materials, 2021, 538, 168321. | 1.0 | 3 |
| 64 | Reduction of hysteresis in (La1-Ce ) (Mn Fe11.4-)Si1.6 magnetocaloric compounds for cryogenic magnetic refrigeration. Acta Materialia, 2021, 220, 117286. | 3.8 | 24 |
| 65 | Significant coercivity enhancement of hot-deformed bulk magnets by two-step diffusion process using a minimal amount of Dy. Scripta Materialia, 2021, 205, 114207. | 2.6 | 16 |
| 66 | Spin-scattering asymmetry at half-metallic-ferromagnet\|ferromagnet interface. Physical Review B, 2021, 104, . | 1.1 | 1 |
| 67 | Formation of anomalous twinning and its effect on texture development in a cold-rolled Mg-Zn-Ca alloy sheet. Materials Characterization, 2021, 181, 111507. | 1.9 | 15 |
| 68 | Corrosion-resistant Cu-Fe-based immiscible medium-entropy alloy with tri-layer passivation. Corrosion Science, 2021, 193, 109888. | 3.0 | 14 |
| 69 | Determination of the Chemical Compositions of Fine titanium Carbide and Niobium Carbide Precipitates in Isothermally Aged Ferritic Steel by Atom Probe Tomography Analysis. Microscopy and Microanalysis, 2021, 27, 1-11. | 0.2 | 8 |
| 70 | Revisiting Fe/MgO/Fe(001): Giant tunnel magnetoresistance up to ~420% at room temperature. , 2021, , . | | 1 |
| 71 | Influence of LRE (Ce, Y, and La) on microstructure and magnetic properties of (Nd0.8LRE0.2)â€“Feâ€“B hot-deformed magnets. AIP Advances, 2021, 11, 115118. | 0.6 | 2 |
| 72 | Magnetic anisotropy constants of ThMn12-type Sm(Fe1â€“Co )12 compounds and their temperature dependence. Journal of Magnetism and Magnetic Materials, 2020, 497, 165965. | 1.0 | 34 |

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|---|---|---|---|
| 73 | Comparative study of spin-dependent transport in Co<sub>2</sub>FeAl/MgAl<sub>2</sub>O<sub>4</sub>/CoFe magnetic tunnel junctions with and without thin CoFe interface insertion: an elastic and inelastic scattering model analysis. Journal Physics D: Applied Physics, 2020, 53, 045001. | 1.3 | 6 |
| 74 | Thermal decomposition of ThMn12-type phase and its optimum stabilizing elements in SmFe12-based alloys. Journal of Alloys and Compounds, 2020, 813, 152224. | 2.8 | 48 |
| 75 | Control of grain density in FePt-C granular thin films during initial growth. Journal of Magnetism and Magnetic Materials, 2020, 500, 166418. | 1.0 | 20 |
| 76 | Magnetic flux density measurements from grain boundary phase in 0.1Âat% Ga-doped Ndâ€“Feâ€“B sintered magnet. Scripta Materialia, 2020, 178, 533-538. | 2.6 | 12 |
| 77 | Formation mechanism of Tb-rich shell in grain boundary diffusion processed Ndâ€“Feâ€“B sintered magnets. Scripta Materialia, 2020, 178, 433-437. | 2.6 | 67 |
| 78 | An alternative approach to the measurement of anisotropy field â€“ Single grain extraction. Journal of Magnetism and Magnetic Materials, 2020, 494, 165747. | 1.0 | 11 |
| 79 | Relationship between the thermal stability of coercivity and the aspect ratio of grains in Nd-Fe-B magnets: Experimental and numerical approaches. Acta Materialia, 2020, 183, 408-417. | 3.8 | 31 |
| 80 | Improving tensile properties of a room-temperature formable and heat-treatable Mgâ€“6Zn-0.2Ca (wt.%) alloy sheet via micro-alloying of Al and Mn. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138690. | 2.6 | 31 |
| 81 | On the temperature-dependent coercivities of anisotropic Nd-Fe-B magnet. Acta Materialia, 2020, 199, 288-296. | 3.8 | 29 |
| 82 | Effect of Mg content on age-hardening response, tensile properties, and microstructures of a T5-treated thixo-cast hypoeutectic Alâ€“Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140089. | 2.6 | 21 |
| 83 | Direct detection and stochastic analysis on thermally activated domain-wall depinning events in micropatterned Nd-Fe-B hot-deformed magnets. Acta Materialia, 2020, 201, 7-13. | 3.8 | 13 |
| 84 | Hierarchical microstructure strengthening in a single crystal high entropy superalloy. Scientific Reports, 2020, 10, 12163. | 1.6 | 21 |
| 85 | Regulation of oxygen reduction reaction by the magnetic effect of L10-PtFe alloy. Applied Catalysis B: Environmental, 2020, 278, 119332. | 10.8 | 34 |
| 86 | Tuning magnetocaloric effect of Ho1-Gd Ni2 and HoNi2-Co alloys around hydrogen liquefaction temperature. Scripta Materialia, 2020, 188, 302-306. | 2.6 | 21 |
| 87 | Role of Zn on the room temperature formability and strength in Mgâ€“Alâ€“Caâ€“Mn sheetÂalloys. Journal of Alloys and Compounds, 2020, 847, 156347. | 2.8 | 35 |
| 88 | Effect of recovery and recrystallization on microstructure and magnetic properties of Fe-0.4P rolled sheets. Materialia, 2020, 13, 100863. | 1.3 | 0 |
| 89 | Thickness dependence of degree of B2 order of polycrystalline Co2(Mn0.6Fe0.4)Ge Heusler alloy films measured by anomalous X-ray diffraction and its impacts on current-perpendicular-to-plane giant magnetoresistance properties. Scripta Materialia, 2020, 189, 63-66. | 2.6 | 4 |
| 90 | Development of a high-strength Mg alloy with superior ductility through a unique texture modification from equal channel angular pressing. Journal of Magnesium and Alloys, 2020, , . | 5.5 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Controlling oxygen distribution of an MgAl2O4 barrier for magnetic tunnel junctions by two-step process. Applied Physics Letters, 2020, 117, 122409. | 1.5 | 5 |
| 92 | Fabrication of a novel magnetic topological heterostructure and temperature evolution of its massive Dirac cone. Nature Communications, 2020, 11, 4821. | 5.8 | 47 |
| 93 | Unveiling spin-dependent unoccupied electronic states of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:mrow> (Ga) film via Ge (Ga) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>L</mml:mi><mml:mrow><mml:mn>2</mml:mn> absorption spectroscopy. Physical Review B, 2020, 102, . | 1.1 | 2 |
| 94 | Influence of implanted Mg concentration on defects and Mg distribution in GaN. Journal of Applied Physics, 2020, 128, . | 1.1 | 16 |
| 95 | Tuning transition temperature of magnetocaloric Mn1.8Fe0.2(P0.59Si0.41) alloys for cryogenic magnetic refrigeration. Scripta Materialia, 2020, 183, 127-132. | 2.6 | 16 |
| 96 | High voltage-controlled magnetic anisotropy and interface magnetoelectric effect in sputtered multilayers annealed at high temperatures. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1. | 2.0 | 6 |
| 97 | Achievement of high coercivity in Sm(Fe0.8Co0.2)12 anisotropic magnetic thin film by boron doping. Acta Materialia, 2020, 194, 337-342. | 3.8 | 57 |
| 98 | Simultaneous achievement of high thermal conductivity, high strength and formability in Mg-Zn-Ca-Zr sheet alloy. Materials Research Letters, 2020, 8, 335-340. | 4.1 | 43 |
| 99 | Fully epitaxial giant magnetoresistive devices with half-metallic Heusler alloy fabricated on poly-crystalline electrode using three-dimensional integration technology. Acta Materialia, 2020, 200, 1038-1045. | 3.8 | 11 |
| 100 | Thermally-stable high coercivity Ce-substituted hot-deformed magnets with 20% Nd reduction. Acta Materialia, 2020, 190, 8-15. | 3.8 | 47 |
| 101 | Enhanced strength by precipitate modification in wrought Mgâ€“Alâ€“Ca alloy with trace Mn addition. Journal of Alloys and Compounds, 2020, 836, 154689. | 2.8 | 31 |
| 102 | The spin Hall effect of Bi-Sb alloys driven by thermally excited Dirac-like electrons. Science Advances, 2020, 6, eaay2324. | 4.7 | 74 |
| 103 | Mg diffusion and activation along threading dislocations in GaN. Applied Physics Letters, 2020, 116, . | 1.5 | 12 |
| 104 | Characterizations of GaN nanowires and GaInN/GaN multi-quantum shells grown by MOVPE. Japanese Journal of Applied Physics, 2020, 59, SGGE05. | 0.8 | 5 |
| 105 | Development of high-performance Mgâ€“Znâ€“Caâ€“Mn alloy via an extrusion process at relatively low temperature. Journal of Alloys and Compounds, 2020, 825, 153942. | 2.8 | 22 |
| 106 | Angular dependence and thermal stability of coercivity of Nd-rich Ga-doped Ndâ€“Feâ€“B sintered magnet. Acta Materialia, 2020, 187, 66-72. | 3.8 | 29 |
| 107 | Influence of process conditions on microstructures and mechanical properties of T5-treated 357 aluminum alloys. Journal of Alloys and Compounds, 2020, 834, 155133. | 2.8 | 13 |
| 108 | New Mgâ€“Al based alloy sheet with good room-temperature stretch formability and tensile properties. Scripta Materialia, 2020, 180, 16-22. | 2.6 | 46 |

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|---|---|---|---|
| 109 | Anisotropy-induced spin reorientation in chemically modulated amorphous ferrimagnetic films. Physical Review Materials, 2020, 4, . | 0.9 | 14 |
| 110 | Effects of the atomic order on the half-metallic electronic structure in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi | | |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Role of Co on the magnetic properties of Ce-substituted Nd-Fe-B hot-deformed magnets. Acta Materialia, 2019, 175, 1-10. | 3.8 | 30 |
| 128 | Enhancing strength and creep resistance of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy by substituting Mn for Zr. Journal of Magnesium and Alloys, 2019, 7, 388-399. | 5.5 | 73 |
| 129 | Development of high coercivity anisotropic Nd-Fe-B/Fe nanocomposite powder using hydrogenation disproportionation desorption recombination process. Acta Materialia, 2019, 175, 276-285. | 3.8 | 27 |
| 130 | Over 100% magnetoresistance ratio at room temperature in magnetic tunnel junctions with CuGaSe2 spacer layer. Applied Physics Letters, 2019, 114, . | 1.5 | 7 |
| 131 | Determining the strength of GP zones in Mg alloy AXM10304, both parallel and perpendicular to the zone. Acta Materialia, 2019, 171, 231-239. | 3.8 | 22 |
| 132 | Microstructure and mechanical properties of extruded Mgâ€“Gdâ€“Yâ€“Zn alloy with Mn or Zr addition. Journal of Materials Science, 2019, 54, 10473-10488. | 1.7 | 23 |
| 133 | Towards Oxide Electronics: a Roadmap. Applied Surface Science, 2019, 482, 1-93. | 3.1 | 236 |
| 134 | Microstructure and coercivity of grain boundary diffusion processed Dy-free and Dy-containing Nd Fe B sintered magnets. Acta Materialia, 2019, 172, 139-149. | 3.8 | 78 |
| 135 | Inducing out-of-plane precession of magnetization for microwave-assisted magnetic recording with an oscillating polarizer in a spin-torque oscillator. Applied Physics Letters, 2019, 114, . | 1.5 | 16 |
| 136 | Coercivity enhancement of selective laser sintered NdFeB magnets by grain boundary infiltration. Acta Materialia, 2019, 172, 66-71. | 3.8 | 53 |
| 137 | Interface resonance in Fe/Pt/MgO multilayer structure with large voltage controlled magnetic anisotropy change. Applied Physics Letters, 2019, 114, . | 1.5 | 8 |
| 138 | Role of Ga on the high coercivity of Nd-rich Ga-doped Nd-Fe-B sintered magnet. Journal of Alloys and Compounds, 2019, 790, 750-759. | 2.8 | 52 |
| 139 | High melting point metal (Pt, W) seed layer for grain size refinement of FePt-based heat-assisted magnetic recording media. Applied Physics Express, 2019, 12, 023007. | 1.1 | 2 |
| 140 | Ultrahigh strength Mg-Al-Ca-Mn extrusion alloys with various aluminum contents. Journal of Alloys and Compounds, 2019, 792, 130-141. | 2.8 | 70 |
| 141 | Emergence of coercivity in Sm(Fe0.8Co0.2)12 thin films via eutectic alloy grain boundary infiltration. Scripta Materialia, 2019, 164, 140-144. | 2.6 | 43 |
| 142 | Band match enhanced current-in-plane giant magnetoresistance in epitaxial Co50Fe50/Cu multilayers with metastable bcc-Cu spacer. APL Materials, 2019, 7, . | 2.2 | 13 |
| 143 | Detection of elemental magnetization reversal events in a micro-patterned Nd-Fe-B hot-deformed magnet. AIP Advances, 2019, 9, 125052. | 0.6 | 7 |
| 144 | Improved current-perpendicular-to-plane giant magnetoresistance outputs by heterogeneous Ag-In:Mn-Zn-O nanocomposite spacer layer prepared from Ag-In-Zn-O precursor. Journal of Applied Physics, 2019, 126, . | 1.1 | 4 |

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|---|---|---|---|
| 145 | Experimental verification of the origin of positive linear magnetoresistance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>CoFe</mml:mi><mml:mo>(</mml:mo><mml:msub><mml:mrow><m Heusler alloys. Physical Review B, 2019, 100, . | 1.1 | 9 |
| 146 | Observation of anomalous Ettingshausen effect and large transverse thermoelectric conductivity in permanent magnets. Applied Physics Letters, 2019, 115, . | 1.5 | 44 |
| 147 | Atomic-scale quantitative analysis of implanted Mg in annealed GaN layers on free-standing GaN substrates. Journal of Applied Physics, 2019, 126, . | 1.1 | 19 |
| 148 | Magnetization reversal process of anisotropic hot-deformed magnets observed by magneto-optical Kerr effect microscopy. Journal of Alloys and Compounds, 2019, 771, 51-59. | 2.8 | 16 |
| 149 | Design of spin-injection-layer in all-in-plane spin-torque-oscillator for microwave assisted magnetic recording. Journal of Magnetism and Magnetic Materials, 2019, 476, 361-370. | 1.0 | 8 |
| 150 | Origin of texture weakening in a rolled ZEX4101 alloy sheet and its effect on room temperature formability and tensile property. Journal of Alloys and Compounds, 2019, 782, 304-314. | 2.8 | 39 |
| 151 | Impact of carbon segregant on microstructure and magnetic properties of FePt-C nanogranular films on MgO (001) substrate. Acta Materialia, 2019, 166, 413-423. | 3.8 | 28 |
| 152 | Ultra-fine grained Mg-Zn-Ca-Mn alloy with simultaneously improved strength and ductility processed by equal channel angular pressing. Journal of Alloys and Compounds, 2019, 785, 410-421. | 2.8 | 61 |
| 153 | Development of ultra-fine grain sized SmFe12-based powders using hydrogenation disproportionation desorption recombination process. Acta Materialia, 2019, 165, 373-380. | 3.8 | 33 |
| 154 | First-order reversal curve analysis of a Nd-Fe-B sintered magnet with soft X-ray magnetic circular dichroism microscopy. Acta Materialia, 2019, 162, 1-9. | 3.8 | 26 |
| 155 | Comparison of coercivity and squareness in hot-deformed and sintered magnets produced from a Nd-Fe-B-Cu-Ga alloy. Scripta Materialia, 2019, 160, 9-14. | 2.6 | 31 |
| 156 | Impact of oxygen interdiffusion on spin-to-charge conversion at nonmagnetic metal/Bi oxide interfaces. Physical Review Materials, 2019, 3, . | 0.9 | 2 |
| 157 | Altered ageing behaviour of a nanostructured Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr alloy processed by high pressure torsion. Acta Materialia, 2018, 151, 260-270. | 3.8 | 143 |
| 158 | Magnetization measurements for grain boundary phases in Ga-doped Nd-Fe-B sintered magnet. Journal of Alloys and Compounds, 2018, 752, 220-230. | 2.8 | 29 |
| 159 | Suppression of non-oriented grains in Nd-Fe-B hot-deformed magnets by Nb doping. Scripta Materialia, 2018, 147, 108-113. | 2.6 | 22 |
| 160 | Read sensor technology for ultrahigh density magnetic recording. MRS Bulletin, 2018, 43, 106-111. | 1.7 | 26 |
| 161 | Heat-assisted magnetic recording media materials. MRS Bulletin, 2018, 43, 93-99. | 1.7 | 32 |
| 162 | Alloy Design for the Development of Heat Treatable High Strength Mg Sheet Alloy with Excellent Room Temperature Formability. Minerals, Metals and Materials Series, 2018, , 373-377. | 0.3 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Deformation Behavior of Ultra-Strong and Ductile Mg-Gd-Y-Zn-Zr Alloy with Bimodal Microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1931-1947. | 1.1 | 135 |
| 164 | Microstructural origin of hysteresis in Ni-Mn-In based magnetocaloric compounds. Acta Materialia, 2018, 147, 342-349. | 3.8 | 28 |
| 165 | Giant tunnel magnetoresistance in polycrystalline magnetic tunnel junctions with highly textured MgAl2O4(001) based barriers. Applied Physics Letters, 2018, 112, . | 1.5 | 19 |
| 166 | Microstructural evolution of perpendicular magnetization films with an ultra-thin Co2FeAl/MgAl2O4(001) structure. Acta Materialia, 2018, 145, 306-315. | 3.8 | 15 |
| 167 | Intrinsic magnetic properties of Sm(Fe1-Co )11Ti and Zr-substituted Sm1-yZr (Fe0.8Co0.2)11.5Ti0.5 compounds with ThMn12 structure toward the development of permanent magnets. Acta Materialia, 2018, 153, 354-363. | 3.8 | 92 |
| 168 | Origin of the coercivity difference in Nd-Fe-B sintered magnets processed from hydrogenation-disproportionation-desorption- recombination powder and jet-milled powder. Acta Materialia, 2018, 151, 293-300. | 3.8 | 23 |
| 169 | Advanced CPP-GMR Spin-Valve Sensors for Narrow Reader Applications. IEEE Transactions on Magnetics, 2018, 54, 1-11. | 1.2 | 21 |
| 170 | Prospect for HRE-free high coercivity Nd-Fe-B permanent magnets. Scripta Materialia, 2018, 151, 6-13. | 2.6 | 101 |
| 171 | Temperature and field direction dependences of first-order reversal curve (FORC) diagrams of hot-deformed Nd-Fe-B magnets. Journal of Magnetism and Magnetic Materials, 2018, 447, 110-115. | 1.0 | 20 |
| 172 | Enhancement of current-perpendicular-to-plane giant magnetoresistive outputs by improving B2-order in polycrystalline Co2(Mn0.6Fe0.4)Ge Heusler alloy films with the insertion of amorphous CoFeBTa underlayer. Acta Materialia, 2018, 142, 49-57. | 3.8 | 19 |
| 173 | Improving mechanical properties and yield asymmetry in high-speed extrudable Mg-1.1Al-0.24Ca (wt%) alloy by high Mn addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 12-19. | 2.6 | 66 |
| 174 | Coercivity enhancement of Nd-Fe-B hot-deformed magnets by the eutectic grain boundary diffusion process using Nd-Ga-Cu and Nd-Fe-Ga-Cu alloys. AIP Advances, 2018, 8, . | 0.6 | 26 |
| 175 | Searching the weakest link: Demagnetizing fields and magnetization reversal in permanent magnets. Scripta Materialia, 2018, 154, 253-258. | 2.6 | 29 |
| 176 | Coercivity enhancement of hot-deformed Ce-Fe-B magnets by grain boundary infiltration of Nd-Cu eutectic alloy. Acta Materialia, 2018, 144, 884-895. | 3.8 | 89 |
| 177 | Correlation between dynamic recrystallization and formation of rare earth texture in a Mg-Zn-Gd magnesium alloy during extrusion. Scientific Reports, 2018, 8, 16800. | 1.6 | 49 |
| 178 | Microstructure and magnetic properties of anisotropic polycrystalline Sm(Fe<inf>0.8</inf>Co<inf>0.2</inf>)<inf>12</inf> thin films with ThMn<inf>12</inf> structure.. , 2018, , . | | 0 |
| 179 | Near- T<sub>c</sub> Ferromagnetic Resonance and Damping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Fe</mml:mi><mml:mi>Pt</mml:mi></mml:math> -Based Heat-Assisted Magnetic Recording Media. Physical Review Applied, 2018, 10, . | 1.5 | 15 |
| 180 | Advances in Nd-Fe-B Based Permanent Magnets. Handbook of Magnetic Materials, 2018, 27, 269-372. | 0.6 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | The microstructural origin of the enhanced current-perpendicular-to-the-plane giant magnetoresistance by Ag/In-Zn-O/Zn spacer layer. Journal of Applied Physics, 2018, 124, . | 1.1 | 5 |
| 182 | Impact of intergrain spin transfer torques due to huge thermal gradients on the performance of heat assisted magnetic recording. , 2018, , . | | 1 |
| 183 | Investigation of Gilbert damping of a tetragonally distorted ultrathin Fe0.5Co0.5 epitaxial film with high magnetic anisotropy. Applied Physics Letters, 2018, 113, . | 1.5 | 15 |
| 184 | Impact of boron diffusion at MgO grain boundaries on magneto-transport properties of MgO/CoFeB/W magnetic tunnel junctions. Acta Materialia, 2018, 161, 360-366. | 3.8 | 24 |
| 185 | Enhancing mechanical properties of rolled Mg-Al-Ca-Mn alloy sheet by Zn addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 737, 223-229. | 2.6 | 35 |
| 186 | Impact of Intergrain Spin-Transfer Torques Due to Huge Thermal Gradients in Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2018, 54, 1-11. | 1.2 | 11 |
| 187 | High magnetic field sensitivity in anti-ferromagnetically coupled 001-epitaxial [Co2Fe(Al0.5Si0.5)/Ag]N multilayers. Journal of Applied Physics, 2018, 124, . | 1.1 | 6 |
| 188 | Coercivity and its thermal stability of Nd Fe B hot-deformed magnets enhanced by the eutectic grain boundary diffusion process. Acta Materialia, 2018, 161, 171-181. | 3.8 | 96 |
| 189 | Effects of rolling conditions on the microstructure and mechanical properties in a Mgâ€“Alâ€“Caâ€“Mnâ€“Zn alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 147-154. | 2.6 | 44 |
| 190 | Microstructure of a Dy-free Nd-Fe-B sintered magnet with 2â€¯T coercivity. Acta Materialia, 2018, 156, 146-157. | 3.8 | 56 |
| 191 | Analysis of magnetotransport properties and microstructure in current-perpendicular-to-plane pseudo spin-valves using Co2Fe(Ga0.5Ge0.5) Heusler alloy and Ag/Mg-Ti-O/Ag-based spacer. Journal of Applied Physics, 2018, 123, 233903. | 1.1 | 1 |
| 192 | Enhanced current-perpendicular-to-plane giant magnetoresistance by improvement of atomic order of Co2FeSi Heusler alloy film through Ag doping. AIP Advances, 2018, 8, 075230. | 0.6 | 3 |
| 193 | Bake-hardenable Mgâ€“Alâ€“Znâ€“Mnâ€“Ca sheetÂalloy processed by twin-roll casting. Acta Materialia, 2018, 158, 278-288. | 3.8 | 131 |
| 194 | Voltage-Controlled Magnetic Anisotropy in Fe1â^'xCox/Pd/MgO system. Scientific Reports, 2018, 8, 10362. | 1.6 | 7 |
| 195 | Microstructure and magnetic properties of FePt-(C,SiO2) granular films deposited on MgO, MgTiO, and MgTiON underlayers. Scripta Materialia, 2018, 157, 1-5. | 2.6 | 13 |
| 196 | Launching Materialia. Acta Biomaterialia, 2018, 75, 1-2. | 4.1 | 3 |
| 197 | The effect of Co addition on magnetic and structural properties of nanocrystalline (Fe,Co)-Si-B-P-Cu alloys. Journal of Alloys and Compounds, 2018, 766, 686-693. | 2.8 | 39 |
| 198 | Unveiling the formation of basal texture variations based on twinning and dynamic recrystallization in AZ31 magnesium alloy during extrusion. Acta Materialia, 2018, 157, 53-71. | 3.8 | 352 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Reprint of Prospect for HRE-free high coercivity Nd-Fe-B permanent magnets. Scripta Materialia, 2018, 154, 277-283. | 2.6 | 18 |
| 200 | Temperature dependence of the crystal structures and phase fractions of secondary phases in a Nd-Fe-B sintered magnet. Acta Materialia, 2018, 154, 25-32. | 3.8 | 33 |
| 201 | Materials for spin-transfer-torque magnetoresistive random-access memory. MRS Bulletin, 2018, 43, 352-357. | 1.7 | 49 |
| 202 | Time domain magnetization dynamics study to estimate interlayer exchange coupling constant in Nd-Fe-B/Ni80Fe20 films. Journal of Magnetism and Magnetic Materials, 2018, 468, 273-278. | 1.0 | 10 |
| 203 | Investigation of nanoscale voids in Sb-doped p-type ZnO nanowires. Nanotechnology, 2018, 29, 335204. | 1.3 | 12 |
| 204 | Micromagnetic Studies of Laser-Induced Magnetization Dynamics in FePtâ€“C Films. IEEE Transactions on Magnetics, 2018, 54, 1-4. | 1.2 | 2 |
| 205 | Effect of Mg-Al insertion on magnetotransport properties in epitaxial Fe/sputter-deposited MgAl2O4/Fe(001) magnetic tunnel junctions. AIP Advances, 2017, 7, . | 0.6 | 5 |
| 206 | Ageing behavior of extruded Mgâ€“8.2Gdâ€“3.8Yâ€“1.0Znâ€“0.4Zr (wt.%) alloy containing LPSO phase and Î³â€² precipitates. Scientific Reports, 2017, 7, 43391. | 1.6 | 72 |
| 207 | Development of High-Strength High-Speed-Extrudable Mgâ€“Alâ€“Caâ€“Mn Alloy. Minerals, Metals and Materials Series, 2017, , 17-21. | 0.3 | 1 |
| 208 | Effect of Ca on the Microstructure, Texture and Mechanical Properties in Mgâ€“Znâ€“Mn Based Alloy. Minerals, Metals and Materials Series, 2017, , 525-531. | 0.3 | 1 |
| 209 | Temperature-dependent first-order reversal curve measurements on unusually hard magnetic low-temperature phase of MnBi. Physical Review B, 2017, 95, . | 1.1 | 19 |
| 210 | Improved (0 0 1)-texture of FePt-C for heat-assisted magnetic recording media by insertion of Cr buffer layer. Journal of Magnetism and Magnetic Materials, 2017, 432, 129-134. | 1.0 | 8 |
| 211 | Pt surface segregation in L1 0 -FePt nano-grains. Scripta Materialia, 2017, 135, 88-91. | 2.6 | 12 |
| 212 | High frequency out-of-plane oscillation with large cone angle in mag-flip spin torque oscillators for microwave assisted magnetic recording. Applied Physics Letters, 2017, 110, . | 1.5 | 25 |
| 213 | Static recrystallization behaviour of cold rolled Mg-Zn-Y alloy and role of solute segregation in microstructure evolution. Scripta Materialia, 2017, 136, 41-45. | 2.6 | 56 |
| 214 | Magnetization reversal of exchange-coupled and exchange-decoupled Nd-Fe-B magnets observed by magneto-optical Kerr effect microscopy. Acta Materialia, 2017, 135, 68-76. | 3.8 | 103 |
| 215 | Improving creep property of Mgâ€“Gdâ€“Zn alloy via trace Ca addition. Scripta Materialia, 2017, 139, 34-38. | 2.6 | 32 |
| 216 | A heat-treatable Mgâ€“Alâ€“Caâ€“Mnâ€“Zn sheet alloy with good room temperature formability. Scripta Materialia, 2017, 138, 151-155. | 2.6 | 104 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | High output voltage of magnetic tunnel junctions with a Cu(In<sub>0.8</sub>Ga<sub>0.2</sub>)Se<sub>2</sub> semiconducting barrier with a low resistanceâ€“area product. Applied Physics Express, 2017, 10, 013008. | 1.1 | 8 |
| 218 | Structural origin of hysteresis for hexagonal (Mn,Fe) 2 (P,Si) magneto-caloric compound. Scripta Materialia, 2017, 138, 96-99. | 2.6 | 17 |
| 219 | Enhancement of L21 order and spin-polarization in Co2FeSi thin film by substitution of Fe with Ti. Applied Physics Letters, 2017, 110, . | 1.5 | 9 |
| 220 | Interdiffusion in epitaxial ultrathin Co<sub>2</sub>FeAl/MgO heterostructures with interface-induced perpendicular magnetic anisotropy. Applied Physics Express, 2017, 10, 013003. | 1.1 | 22 |
| 221 | Perpendicular magnetic anisotropy at lattice-matched Co2FeAl/MgAl2O4(001) epitaxial interfaces. Applied Physics Letters, 2017, 110, . | 1.5 | 23 |
| 222 | MgGa2O4 spinel barrier for magnetic tunnel junctions: Coherent tunneling and low barrier height. Applied Physics Letters, 2017, 110, . | 1.5 | 27 |
| 223 | Strong and ductile age-hardening Mg-Al-Ca-Mn alloy that can be extruded as fast as aluminum alloys. Acta Materialia, 2017, 130, 261-270. | 3.8 | 163 |
| 224 | Hot compression deformation behavior of Mg-9Gd-2.9Y-1.9Zn-0.4Zr-0.2Ca (wt%) alloy. Materials Characterization, 2017, 124, 40-49. | 1.9 | 55 |
| 225 | Microstructure and in-plane component of L10-FePt films deposited on MgO and MgAl2O4 substrates. Scripta Materialia, 2017, 130, 247-251. | 2.6 | 18 |
| 226 | Correlation of microchemistry of cell boundary phase and interface structure to the coercivity of Sm(Co0.784Fe0.100Cu0.088Zr0.028)7.19 sintered magnets. Acta Materialia, 2017, 126, 1-10. | 3.8 | 129 |
| 227 | Simultaneously enhanced strength and ductility of Mg-Zn-Zr-Ca alloy with fully recrystallized ultrafine grained structures. Scripta Materialia, 2017, 131, 1-5. | 2.6 | 118 |
| 228 | Influence of Ca-Ce/La synergistic alloying on the microstructure and mechanical properties of extruded Mgâ€“Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 11-20. | 2.6 | 52 |
| 229 | Annealing effect on current-driven domain wall motion in Pt/[Co/Ni] wire. Journal of Applied Physics, 2017, 122, . | 1.1 | 4 |
| 230 | Giant interfacial perpendicular magnetic anisotropy in Fe/CuIn1â^'xGaxSe2 beyond Fe/MgO. Physical Review B, 2017, 96, . | 1.1 | 14 |
| 231 | High-throughput direct measurement of magnetocaloric effect based on lock-in thermography technique. Applied Physics Letters, 2017, 111, . | 1.5 | 23 |
| 232 | Paths to Open Access: An update from Acta Materialia, Inc.. Acta Biomaterialia, 2017, 60, 1-2. | 4.1 | 0 |
| 233 | Enhanced mechanical properties in fully recrystallized ultrafine grained ZKX600 Mg alloy. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012055. | 0.3 | 1 |
| 234 | Highly efficient voltage control of spin and enhanced interfacial perpendicular magnetic anisotropy in iridium-doped Fe/MgO magnetic tunnel junctions. NPG Asia Materials, 2017, 9, e451-e451. | 3.8 | 84 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Investigation of spin-dependent transports and microstructure in NiMnSb-based magnetoresistive devices. Applied Physics Letters, 2017, 111, 222402. | 1.5 | 6 |
| 236 | Interfacial perpendicular magnetic anisotropy and electric field effect in Ta/CoFeB/Mg1â^'xTixO heterostructures. Applied Physics Letters, 2017, 111, . | 1.5 | 4 |
| 237 | Increased magnetic damping in ultrathin films of Co2FeAl with perpendicular anisotropy. Applied Physics Letters, 2017, 110, . | 1.5 | 20 |
| 238 | Micromagnetic Studies at Finite Temperature on FePtâ€“C Granular Films. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 1.2 | 8 |
| 239 | Voltage controlled interfacial magnetism through platinum orbits. Nature Communications, 2017, 8, 15848. | 5.8 | 128 |
| 240 | Intrinsic hard magnetic properties of Sm(Fe 1â^'x Co x ) 12 compound with the ThMn 12 structure. Scripta Materialia, 2017, 138, 62-65. | 2.6 | 157 |
| 241 | Effect of Ca/Al ratio on microstructure and mechanical properties of Mg-Al-Ca-Mn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 423-432. | 2.6 | 96 |
| 242 | Coercivities of hot-deformed magnets processed from amorphous and nanocrystalline precursors. Acta Materialia, 2017, 123, 1-10. | 3.8 | 39 |
| 243 | Enhancing strength and ductility of Mg-Zn-Gd alloy via slow-speed extrusion combined with pre-forging. Journal of Alloys and Compounds, 2017, 694, 1214-1223. | 2.8 | 41 |
| 244 | Coercivity enhancement of hot-deformed Nd-Fe-B magnets by the eutectic grain boundary diffusion process using Nd 62 Dy 20 Al 18 alloy. Scripta Materialia, 2017, 129, 44-47. | 2.6 | 86 |
| 245 | Microstructure and magnetic properties of grain boundary modified recycled Nd-Fe-B sintered magnets. Journal of Alloys and Compounds, 2017, 694, 175-184. | 2.8 | 34 |
| 246 | Origin of in-plane component for L1<inf>0</inf>-FePt granular films deposited on MgO single crystal substrate. , 2017, , . | | 0 |
| 247 | 3DAP/TEM Study of Precipitation Hardened Magnesium Alloys. Microscopy and Microanalysis, 2017, 23, 686-687. | 0.2 | 0 |
| 248 | Layer thickness effects and microstructure of CPP-GMR spin-valves with Ag/InZnO/Zn conductive oxide-based spacer layers. , 2017, , . | | 2 |
| 249 | Enhanced CPP-GMR effect by improved B2-order of Co<inf>2</inf>(Mn<inf>0.6</inf>Fe<inf>0.4</inf>)Ge Heusler layer deposited on amorphous CoFeBTa underlayer: A quantitative estimation of site-disordering by anomalous x-ray diffraction. , 2017, , . | | 1 |
| 250 | Propagation of magnetic domains in exchange coupled and exchange decoupled Nd-Fe-B magnets observed by magneto-optic Kerr effect. , 2017, , . | | 0 |
| 251 | Micromagnetic studies at finite temperature on FePt-C granular films. , 2017, , . | | 0 |
| 252 | Micromagnetic Simulations of Magnetization Reversals in Nd-Fe-B Based Permanent Magnets. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2017, 81, 11-18. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Change of deformation mechanisms in ultrafine grained Mg-Zn-Zr-Ca alloy. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012016. | 0.3 | 1 |
| 254 | Microstructure of Nd-Fe-B Sintered Magnetsâ€"Structure of Grain Boundaries and Interface. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2017, 81, 2-10. | 0.2 | 3 |
| 255 | Epitaxial magnetic tunnel junctions with a low barrier height spinel MgGa<inf>2</inf>O<inf>4</inf>. , 2017, , . | | 0 |
| 256 | Development of strong and formable wrought magnesium alloys and the application to sports materials. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, W231002. | 0.0 | 0 |
| 257 | Microstructure and Mechanical Properties of Mgâ€"Znâ€"Gd Alloys After Rolling or Extrusion Processes. Minerals, Metals and Materials Series, 2017, , 441-448. | 0.3 | 0 |
| 258 | Magnetic tunnel junctions with a rock-salt-type Mg1â^'xTixO barrier for low resistance area product. Applied Physics Letters, 2016, 108, . | 1.5 | 10 |
| 259 | Current-perpendicular-to-plane giant magnetoresistive properties in Co2Mn(Ge0.75Ga0.25)/Cu2TiAl/Co2Mn(Ge0.75Ga0.25) all-Heusler alloy pseudo spin valve. Journal of Applied Physics, 2016, 119, . | 1.1 | 15 |
| 260 | Large enhancement of bulk spin polarization by suppressing CoMnanti-sites in Co2Mn(Ge0.75Ga0.25) Heusler alloy thin film. Applied Physics Letters, 2016, 108, 122404. | 1.5 | 24 |
| 261 | Large magnetoresistance in Heusler-alloy-based epitaxial magnetic junctions with semiconducting Cu(In0.8Ga0.2)Se2 spacer. Applied Physics Letters, 2016, 109, . | 1.5 | 29 |
| 262 | Realization of high quality epitaxial current- perpendicular-to-plane giant magnetoresistive pseudo spin-valves on Si(001) wafer using NiAl buffer layer. APL Materials, 2016, 4, 056104. | 2.2 | 13 |
| 263 | Micromagnetic simulation of the orientation dependence of grain boundary properties on the coercivity of Nd-Fe-B sintered magnets. AIP Advances, 2016, 6, 056028. | 0.6 | 25 |
| 264 | Tuning the magnetic properties and surface morphology of D22 Mn3-Î´Ga films with high perpendicular magnetic anisotropy by N doping. Applied Physics Letters, 2016, 109, . | 1.5 | 9 |
| 265 | Anisotropic magnetoresistance and current-perpendicular-to-plane giant magnetoresistance in epitaxial NiMnSb-based multilayers. Journal of Applied Physics, 2016, 119, . | 1.1 | 11 |
| 266 | Large-scale micromagnetic simulation of Nd-Fe-B sintered magnets with Dy-rich shell structures. AIP Advances, 2016, 6, . | 0.6 | 72 |
| 267 | On the synthesis and microstructure analysis of high performance MnBi. AIP Advances, 2016, 6, . | 0.6 | 24 |
| 268 | Temperature dependence of magneto-transport properties in Co2Fe(Ga0.5Ge0.5)/Cu lateral spin valves. Applied Physics Letters, 2016, 108, . | 1.5 | 10 |
| 269 | Influence of MgO underlayers on the structure and magnetic properties of FePt-C nanogranular films for heat-assisted magnetic recording media. AIP Advances, 2016, 6, . | 0.6 | 11 |
| 270 | Strain measurement in ferromagnetic crystals using dark-field electron holography. Applied Physics Letters, 2016, 109, . | 1.5 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Enhancement of magnetoresistance by inserting thin NiAl layers at the interfaces in Co2FeGa0.5Ge0.5/Ag/Co2FeGa0.5Ge0.5 current-perpendicular-to-plane pseudo spin valves. Applied Physics Letters, 2016, 108, . | 1.5 | 59 |
| 272 | MgAl2O4(001) based magnetic tunnel junctions made by direct sputtering of a sintered spinel target. Applied Physics Letters, 2016, 108, . | 1.5 | 39 |
| 273 | Reduction of critical current density for out-of-plane mode oscillation in a mag-flip spin torque oscillator using highly spin-polarized Co2Fe(Ga0.5Ge0.5) spin injection layer. Applied Physics Letters, 2016, 108, . | 1.5 | 23 |
| 274 | Atom probe tomography of compositional fluctuation in GaInN layers. Japanese Journal of Applied Physics, 2016, 55, 05FM04. | 0.8 | 11 |
| 275 | Coercivity of the Ndâ€“Feâ€“B hot-deformed magnets diffusion-processed with low melting temperature glass forming alloys. Journal of Magnetism and Magnetic Materials, 2016, 412, 234-242. | 1.0 | 41 |
| 276 | High coercivity Sm2Fe17N3 submicron size powder prepared by polymerized-complex and reductionâ€“diffusion process. Scripta Materialia, 2016, 120, 27-30. | 2.6 | 54 |
| 277 | Atom probe tomography of metallic nanostructures. MRS Bulletin, 2016, 41, 23-29. | 1.7 | 21 |
| 278 | L10â€“FePt Granular Films for Heat-Assisted Magnetic Recording Media. , 2016, , 245-277. | | 8 |
| 279 | High-speed extrusion of dilute Mg-Zn-Ca-Mn alloys and its effect on microstructure, texture and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 329-338. | 2.6 | 83 |
| 280 | Optimization of Mn content for high strengths in high-speed extruded Mg-0.3Al-0.3Ca (wt%) dilute alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 443-449. | 2.6 | 51 |
| 281 | Strength and Ductility of Ultrafine Grained ZKX600 Mg Alloy. , 2016, , 245-250. | | 0 |
| 282 | Nano-analysis of Ta/FeCoB/MgO tunnel magneto resistance structures. Acta Materialia, 2016, 116, 298-307. | 3.8 | 6 |
| 283 | Ultrahigh strength as-extruded Mgâ€“10.3Znâ€“6.4Yâ€“0.4Zrâ€“0.5Ca alloy containing W phase. Materials and Design, 2016, 108, 391-399. | 3.3 | 79 |
| 284 | Accumulative Magnetic Switching of Ultrahigh-Density Recording Media by Circularly Polarized Light. Physical Review Applied, 2016, 6, . | 1.5 | 61 |
| 285 | Micromagnetic Simulations of Magnetization Reversals in Nd-Fe-B Based Permanent Magnets. Materials Transactions, 2016, 57, 1221-1229. | 0.4 | 27 |
| 286 | Chemical ordering and large tunnel magnetoresistance in Co<sub>2</sub>FeAl/MgAl<sub>2</sub>O<sub>4</sub>/Co<sub>2</sub>FeAl(001) junctions. Applied Physics Express, 2016, 9, 053004. | 1.1 | 51 |
| 287 | The Potential and Challenges of Nd(FeM)<sub>12</sub>N Compounds with ThMn<sub>12</sub> Structure for Permanent Magnet Materials. Materia Japan, 2016, 55, 97-103. | 0.1 | 4 |
| 288 | Rare earth texture and improved ductility in a Mg-Zn-Gd alloy after high-speed extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 233-239. | 2.6 | 138 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Structure and chemical compositions of the grain boundary phase in Nd-Fe-B sintered magnets. Acta Materialia, 2016, 115, 269-277. | 3.8 | 160 |
| 290 | Precipitation in a Ag-Containing Mg-Y-Zn Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 927-940. | 1.1 | 38 |
| 291 | Coercivity enhancement of hot-deformed Nd-Fe-B magnets by the eutectic grain boundary diffusion process. Journal of Alloys and Compounds, 2016, 666, 432-439. | 2.8 | 86 |
| 292 | Magnetism of Ndâ€“Fe films as a model of grain boundary phase in Ndâ€“Feâ€“B permanent magnets. Applied Physics Express, 2016, 9, 013002. | 1.1 | 37 |
| 293 | Effect of Co substitution for Mn on spin polarization and magnetic properties of ferrimagnetic Mn2VAl. Journal of Alloys and Compounds, 2016, 662, 510-515. | 2.8 | 25 |
| 294 | Growth Mechanism of Columnar Grains in FePtâ€“C Granular Films for HAMR Media Processed by Compositionally Graded Sputtering. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 1.2 | 4 |
| 295 | Effect of warm rolling on the microstructure, texture and mechanical properties of extruded Mgâ€“Znâ€“Caâ€“Ce/La alloy. Materials Characterization, 2016, 115, 1-7. | 1.9 | 22 |
| 296 | Magnetization reversal of FePt based exchange coupled composite media. Acta Materialia, 2016, 111, 47-55. | 3.8 | 24 |
| 297 | The influence of grain morphology and easy axis orientation on the coercivity of Sm(Co0.9Cu0.1)5 thin films. Acta Materialia, 2016, 107, 49-58. | 3.8 | 19 |
| 298 | Development of dilute Mgâ€“Znâ€“Caâ€“Mn alloy with high performance via extrusion. Journal of Alloys and Compounds, 2016, 668, 13-21. | 2.8 | 101 |
| 299 | Atom probe analysis and magnetic properties of nanocrystalline Fe84.3Si4B8P3Cu0.7. Journal of Alloys and Compounds, 2016, 674, 136-144. | 2.8 | 54 |
| 300 | Enhancement of Interfacial Spin-Dependent Scattering of Co<sub>2</sub>Fe(Ga<sub>0.5</sub>Ge<sub>0.5</sub>)/Ag/Co<sub>2</sub>Fe(Ga<sub>0.5</sub>Ge<sub>0.5</sub>) Current-Perpendicular-to-Plane Giant Magnetoresistive Pseudo-Spin Valves. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 1.2 | 3 |
| 301 | Tunnel Magnetoresistance of Ferromagnetic Antiperovskite MnGaN/MgO/CoFeB Perpendicular Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 1.2 | 4 |
| 302 | Precise Damage Observation in Ion-Beam Etched MTJ. IEEE Transactions on Magnetics, 2016, 52, 1-3. | 1.2 | 15 |
| 303 | Magnetic and structural properties of MnRh thin Films. Journal of Magnetism and Magnetic Materials, 2016, 401, 144-149. | 1.0 | 5 |
| 304 | Three-dimensional atom probe analysis and magnetic properties of Fe 85 Cu 1 Si 2 B 8 P 4 melt spun ribbons. Journal of Magnetism and Magnetic Materials, 2016, 401, 1123-1129. | 1.0 | 20 |
| 305 | Formation of non-ferromagnetic grain boundary phase in a Ga-doped Nd-rich Ndâ€“Feâ€“B sintered magnet. Scripta Materialia, 2016, 113, 218-221. | 2.6 | 164 |
| 306 | Enhancement of L2 1 order and spin-polarization of Heusler alloy Co 2 MnSi thin film by Ag alloying. Scripta Materialia, 2016, 110, 70-73. | 2.6 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Structure Optimization of FePtâ€“C Nanogranular Films for Heat-Assisted Magnetic Recording Media. IEEE Transactions on Magnetics, 2016, 52, 1-8. | 1.2 | 9 |
| 308 | Spin Polarization in Heusler Alloy Films. Springer Series in Materials Science, 2016, , 295-318. | 0.4 | 2 |
| 309 | Age hardening behavior of Mg-1.2Sn-1.7Zn alloy containing Al. , 2016, , 269-273. | | 0 |
| 310 | Low-temperature Diffusion Process for Hot-deformed Bulk Permanent Magnet using RE-Cu Eutectic Alloy. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 478-483. | 0.2 | 0 |
| 311 | Strength and Ductility of Ultrafine Grained ZKX600 Mg Alloy. , 2016, , 245-250. | | 0 |
| 312 | Temperature-dependent magnetization reversal process and coercivity mechanism in Nd-Fe-B hot-deformed magnets. Journal of Applied Physics, 2015, 118, . | 1.1 | 38 |
| 313 | Toward the Development of Dysprosium-free Neodymium-Iron-Boron High Coercivity Magnets. Materia Japan, 2015, 54, 351-355. | 0.1 | 0 |
| 314 | Enhancement of current-perpendicular-to-plane giant magnetoresistance in Heusler-alloy based pseudo spin valves by using a CuZn spacer layer. Journal of Applied Physics, 2015, 118, . | 1.1 | 6 |
| 315 | Perpendicularly magnetized (001)-textured D22 MnGa films grown on an (Mg0.2Ti0.8)O buffer with thermally oxidized Si substrates. Journal of Applied Physics, 2015, 118, . | 1.1 | 6 |
| 316 | Correlation between the spin Hall angle and the structural phases of early 5d transition metals. Applied Physics Letters, 2015, 107, . | 1.5 | 109 |
| 317 | Order parameters and magnetocrystalline anisotropy of off-stoichiometric D22 Mn2.36Ga epitaxial films grown on MgO (001) and SrTiO3 (001). Journal of Applied Physics, 2015, 118, . | 1.1 | 7 |
| 318 | Large magnetoresistance in current-perpendicular-to-plane pseudo spin-valves using Co2Fe(Ga0.5Ge0.5) Heusler alloy and AgZn spacer. Applied Physics Letters, 2015, 107, . | 1.5 | 24 |
| 319 | Comment on â€œCurrent perpendicular to film plane type giant magnetoresistance effect using a Agâ€“Mg spacer and Co<sub>2</sub>Fe<sub>0.4</sub>Mn<sub>0.6</sub>Si Heusler alloy electrodesâ€• Applied Physics Express, 2015, 8, 119101. | 1.1 | 0 |
| 320 | Investigation of the quaternary Fe2â^' xCoxMnSi (0 â‰¤xâ‰¤ 0.6) alloys by structural, magnetic, resistivity and spin polarization measurements. Journal Physics D: Applied Physics, 2015, 48, 125002. | 1.3 | 18 |
| 321 | Rare-Earth Lean Hard Magnet Compound NdFe12N. Jom, 2015, 67, 1344-1349. | 0.9 | 47 |
| 322 | Spin gapless semiconducting behavior in equiatomic quaternary CoFeMnSi Heusler alloy. Physical Review B, 2015, 91, . | 1.1 | 212 |
| 323 | B23-P-02Strain analysis from Nd-Fe-B sintered magnet using artificial moirÃ© fringes. Microscopy (Oxford, England), 2015, 64, i112.2-i112. | 0.7 | 0 |
| 324 | Polycrystalline CPP-GMR Pseudospin Valves Using <inline-formula> <tex-math notation="LaTeX">$langle {001}angle $ </tex-math></inline-formula> Textured Co<sub>2</sub>Fe(Ga<sub>0.5</sub>Ge<sub>0.5</sub>) Layer Grown on a Conductive (Mg<sub>0.5</sub>Ti<sub>0.5</sub>)O Buffer Layer. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 1.2 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Energy barrier analysis on hot-deformed Nd-Fe-B magnets. , 2015, , . | | 0 |
| 326 | Reducing the tensionâ€“compression yield asymmetry of extruded Mgâ€“Znâ€“Ca alloy via equal channel angular pressing. Journal of Magnesium and Alloys, 2015, 3, 302-308. | 5.5 | 51 |
| 327 | On the prismatic precipitate plates in Mgâ€“Caâ€“In alloys. Scripta Materialia, 2015, 101, 16-19. | 2.6 | 12 |
| 328 | Columnar Structure in FePtâ€“C Granular Media for Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2015, 51, 1-4. | 1.2 | 34 |
| 329 | High spin polarization and spin splitting in equiatomic quaternary CoFeCrAl Heusler alloy. Journal of Magnetism and Magnetic Materials, 2015, 394, 82-86. | 1.0 | 79 |
| 330 | Corrigendum to â€œCoercivity of Sm(Co0.9Cu0.1)4.8 melt-spun ribbonsâ€•[J. Alloys Compd. 436 (2007) 358â€“363]. Journal of Alloys and Compounds, 2015, 641, 162. | 2.8 | 1 |
| 331 | Improving tensile properties of dilute Mg-0.27Al-0.13Ca-0.21Mn (at.%) alloy by low temperature high speed extrusion. Journal of Alloys and Compounds, 2015, 648, 428-437. | 2.8 | 69 |
| 332 | Origin of an Isothermal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi></mml:mrow></mml:math>-Martensite Formation in Ni-rich Ti-Ni Solid Solution: Crystallization of Strain Glass. Physical Review Letters, 2015, 114, 055701. | 2.9 | 48 |
| 333 | Effect of carbon on the coercivity and microstructure in fine-grained Ndâ€“Feâ€“B sintered magnet. Acta Materialia, 2015, 84, 506-514. | 3.8 | 54 |
| 334 | Influence of boron diffusion on the perpendicular magnetic anisotropy in Ta\|CoFeB\|MgO ultrathin films. Journal of Applied Physics, 2015, 117, . | 1.1 | 74 |
| 335 | High-speed extrusion of heat-treatable Mgâ€“Alâ€“Caâ€“Mn dilute alloy. Scripta Materialia, 2015, 101, 28-31. | 2.6 | 89 |
| 336 | Influence of deformation rate on microstructure, texture and mechanical properties of indirect-extruded Mgâ€“Znâ€“Ca alloy. Materials Characterization, 2015, 104, 66-72. | 1.9 | 60 |
| 337 | Effect of MgO underlayer misorientation on the texture and magnetic property of FePtâ€“C granular film. Acta Materialia, 2015, 91, 41-49. | 3.8 | 49 |
| 338 | Preparation, Characterization, and Modeling of Ultrahigh Coercivity Smâ€“Co Thin Films. Advanced Electronic Materials, 2015, 1, 1500009. | 2.6 | 27 |
| 339 | Ferromagnetic MnGaN thin films with perpendicular magnetic anisotropy for spintronics applications. Applied Physics Letters, 2015, 107, . | 1.5 | 11 |
| 340 | Strain measurements from Nd2Fe14B grains in sintered magnets using artificial moirÃ© fringes. Acta Materialia, 2015, 101, 101-106. | 3.8 | 23 |
| 341 | Microstructure and temperature dependent of coercivity of hot-deformed Ndâ€“Feâ€“B magnets diffusion processed with Prâ€“Cu alloy. Acta Materialia, 2015, 99, 297-306. | 3.8 | 127 |
| 342 | Crystal orientation dependence of band matching in all-B2-trilayer current-perpendicular-to-plane giant magnetoresistance pseudo spin-valves using Co2Fe(Ge0.5Ga0.5) Heusler alloy and NiAl spacer. Journal of Applied Physics, 2015, 117, . | 1.1 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | All-optical control of ferromagnetic thin films and nanostructures: Competition between polarized light and applied magnetic field. , 2015, , . | | 0 |
| 344 | Strong and ductile heat-treatable Mgâ€“Snâ€“Znâ€“Al wrought alloys. Acta Materialia, 2015, 99, 176-186. | 3.8 | 146 |
| 345 | Thermal stability of coercivity in grain boundary modified anisotropic hot-deformed Nd-Fe-B magnets. , 2015, , . | | 0 |
| 346 | Polycrystalline CPP-GMR devices using <001> textured Co<inf>2</inf>Fe(Ga<inf>0.5</inf>Ge<inf>0.5</inf>) Heusler alloy layer and conductive Mg<inf>0.5</inf>Ti<inf>0.5</inf>O<inf>x</inf> buffer layer. , 2015, , . | | 0 |
| 347 | Mechanism of the texture development in hydrogen-disproportionationâ€“desorption-recombination (HDDR) processed Ndâ€“Feâ€“B powders. Acta Materialia, 2015, 85, 42-52. | 3.8 | 49 |
| 348 | Hard magnetic properties of spacer-layer-tuned NdFeB/Ta/Fe nanocomposite films. Acta Materialia, 2015, 84, 405-412. | 3.8 | 35 |
| 349 | NdFe12N hard-magnetic compound with high magnetization and anisotropy field. Scripta Materialia, 2015, 95, 70-72. | 2.6 | 113 |
| 350 | Grain size dependence of coercivity of hot-deformed Ndâ€“Feâ€“B anisotropic magnets. Acta Materialia, 2015, 82, 336-343. | 3.8 | 173 |
| 351 | Lattice-matched magnetic tunnel junctions using a Heusler alloy Co2FeAl and a cation-disorder spinel Mg-Al-O barrier. Applied Physics Letters, 2014, 105, . | 1.5 | 37 |
| 352 | High spin polarization in CoFeMnGe equiatomic quaternary Heusler alloy. Journal of Applied Physics, 2014, 116, . | 1.1 | 115 |
| 353 | Low temperature diffusion process using rare earth-Cu eutectic alloys for hot-deformed Nd-Fe-B bulk magnets. Journal of Applied Physics, 2014, 115, . | 1.1 | 73 |
| 354 | Faceted shell structure in grain boundary diffusion-processed sintered Ndâ€“Feâ€“B magnets. Journal of Alloys and Compounds, 2014, 617, 884-892. | 2.8 | 90 |
| 355 | Thermal engineering of non-local resistance in lateral spin valves. Applied Physics Letters, 2014, 104, . | 1.5 | 15 |
| 356 | Micromagnetic Simulations of Magnetization Reversal in Misaligned Multigrain Magnets With Various Grain Boundary Properties Using Large-Scale Parallel Computing. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 1.2 | 39 |
| 357 | Multi-scale characterization by FIB-SEM/TEM/3DAP. Microscopy (Oxford, England), 2014, 63, i6-i7. | 0.7 | 3 |
| 358 | Quantitative analysis of anisotropic magnetoresistance in Co2MnZ and Co2FeZ epitaxial thin films: A facile way to investigate spin-polarization in half-metallic Heusler compounds. Applied Physics Letters, 2014, 104, . | 1.5 | 76 |
| 359 | Magneto-transport and microstructure of Co2Fe(Ga0.5Ge0.5)/Cu lateral spin valves prepared by top-down microfabrication process. Journal of Applied Physics, 2014, 115, . | 1.1 | 39 |
| 360 | Solute clustering and grain boundary segregation in extruded dilute Mgâ€“Gd alloys. Scripta Materialia, 2014, 93, 28-31. | 2.6 | 150 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Direct observation of ferromagnetism in grain boundary phase of Nd-Fe-B sintered magnet using soft x-ray magnetic circular dichroism. Applied Physics Letters, 2014, 105, . | 1.5 | 81 |
| 362 | Mechanism of coercivity enhancement by Ag addition in FePt-C granular films for heat assisted magnetic recording media. Applied Physics Letters, 2014, 104, . | 1.5 | 42 |
| 363 | Microstructure and Magnetic Properties of FePtâ€“Cr<sub>2</sub>O<sub>3</sub> Films. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 1.2 | 16 |
| 364 | Laser-assisted atom probe tomography of 18O-enriched oxide thin film for quantitative analysis of oxygen. Applied Surface Science, 2014, 290, 194-198. | 3.1 | 32 |
| 365 | Microstructural and magnetic properties study of Feâ€“P rolled sheet alloys. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 38-43. | 1.0 | 16 |
| 366 | Plasma Nitriding Behavior of Fe-C-M (MÂ=ÂAl, Cr, Mn, Si) Ternary Martensitic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 239-249. | 1.1 | 18 |
| 367 | Magnetic and structural properties of MnBi multilayered thin films. Journal of Applied Physics, 2014, 115, . | 1.1 | 34 |
| 368 | Enhancing the high temperature plasticity of a Cu-containing austenitic stainless steel through grain boundary strengthening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 602, 77-88. | 2.6 | 19 |
| 369 | Magnetism of ultrathin intergranular boundary regions in Ndâ€“Feâ€“B permanent magnets. Acta Materialia, 2014, 71, 370-379. | 3.8 | 117 |
| 370 | Microstructure evolution of hot-deformed Nd-Fe-B anisotropic magnets. Journal of Applied Physics, 2014, 115, . | 1.1 | 26 |
| 371 | A 4â€Foldâ€Symmetry Hexagonal Ruthenium for Magnetic Heterostructures Exhibiting Enhanced Perpendicular Magnetic Anisotropy and Tunnel Magnetoresistance. Advanced Materials, 2014, 26, 6483-6490. | 11.1 | 76 |
| 372 | Crystal orientation dependence of current-perpendicular-to-plane giant magnetoresistance of pseudo spin-valves with epitaxial Co2Fe(Ge0.5Ga0.5) Heusler alloy layers. Journal of Applied Physics, 2014, 115, . | 1.1 | 9 |
| 373 | All-optical control of ferromagnetic thin films and nanostructures. Science, 2014, 345, 1337-1340. | 6.0 | 524 |
| 374 | Effect of microalloyed Zr on the extruded microstructure of Mgâ€“6.2Zn-based alloys. Scripta Materialia, 2014, 90-91, 37-40. | 2.6 | 54 |
| 375 | Micromagnetic simulations on the grain size dependence of coercivity in anisotropic Ndâ€“Feâ€“B sintered magnets. Scripta Materialia, 2014, 89, 29-32. | 2.6 | 164 |
| 376 | Microstructure and magnetic properties of FePtâ€“TiCâ€“C granular thin films for perpendicular recording. Solid State Communications, 2014, 182, 17-21. | 0.9 | 12 |
| 377 | Atom-Probe Field Ion Microscopy. , 2014, , 1453-1589. | | 3 |
| 378 | High-coercivity hot-deformed Ndâ€“Feâ€“B permanent magnets processed by Ndâ€“Cu eutectic diffusion under expansion constraint. Scripta Materialia, 2014, 81, 48-51. | 2.6 | 136 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | High strength and formable Mgâ€“6.2Znâ€“0.5Zrâ€“0.2Ca alloy sheet processed by twin roll casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 609, 154-160. | 2.6 | 67 |
| 380 | Polycrystalline current-perpendicular-to-plane giant magnetoresistance pseudo spin-valves using Co2Mn(Ga0.25Ge0.75) Heusler alloy. Journal of Applied Physics, 2013, 114, . | 1.1 | 6 |
| 381 | Microstructure Control of L10-Ordered FePt Granular Film for Heat-Assisted Magnetic Recording (HAMR) Media. Jom, 2013, 65, 853-861. | 0.9 | 28 |
| 382 | High-coercivity ultrafine-grained anisotropic Ndâ€“Feâ€“B magnets processed by hot deformation and the Ndâ€“Cu grain boundary diffusion process. Acta Materialia, 2013, 61, 6622-6634. | 3.8 | 252 |
| 383 | Effect of extrusion ratio on microstructure, texture and mechanical properties of indirectly extruded Mgâ€“Znâ€“Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 569, 48-53. | 2.6 | 74 |
| 384 | Effect of extrusion conditions on microstructure and mechanical properties of microalloyed Mgâ€“Snâ€“Alâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 318-328. | 2.6 | 181 |
| 385 | Low-resistive monocrystalline Mg-Al-O barrier magnetic tunnel junctions for spin-transfer magnetization switching. Applied Physics Letters, 2013, 103, . | 1.5 | 32 |
| 386 | Temperature dependence of magnetoresistive output of pseudo spin valves with Co2Fe(Al1â^'xSix) Heusler alloys and a Ag spacer. Journal of Applied Physics, 2013, 114, . | 1.1 | 12 |
| 387 | Enhancement of coercivity of hot-deformed Ndâ€“Feâ€“B anisotropic magnet by low-temperature grain boundary diffusion of Nd60Dy20Cu20 eutectic alloy. Scripta Materialia, 2013, 69, 647-650. | 2.6 | 114 |
| 388 | Large perpendicular magnetic anisotropy at Fe/MgO interface. Applied Physics Letters, 2013, 103, . | 1.5 | 100 |
| 389 | Microstructure and Magnetic Properties of FePt-MO$_{m x}$ Granular Films. IEEE Transactions on Magnetics, 2013, 49, 3616-3619. | 1.2 | 28 |
| 390 | Compositional optimization of Mgâ€“Snâ€“Al alloys for higher age hardening response. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 566, 22-29. | 2.6 | 92 |
| 391 | Effect of Nd content on the microstructure and coercivity of hot-deformed Ndâ€“Feâ€“B permanent magnets. Acta Materialia, 2013, 61, 5387-5399. | 3.8 | 196 |
| 392 | Effect of ageing treatment on the precipitation behaviour of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy. Journal of Alloys and Compounds, 2013, 550, 50-56. | 2.8 | 69 |
| 393 | Current-perpendicular-to-plane giant magnetoresistance using Co2Fe(Ga1â^'xGex) Heusler alloy. Journal of Applied Physics, 2013, 113, . | 1.1 | 42 |
| 394 | Coercivity enhancement of rapidly solidified Ndâ€“Feâ€“B magnet powders. Scripta Materialia, 2013, 68, 167-170. | 2.6 | 46 |
| 395 | Atom probe analysis on interaction between Cr and N in bake-hardening steels with anti-aging properties at RT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 585, 100-107. | 2.6 | 3 |
| 396 | The effect of Ag and Ca additions on the age hardening response of Mgâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 575, 231-240. | 2.6 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 397 | Evidence for nano-Si clusters in amorphous SiO anode materials for rechargeable Li-ion batteries. Scripta Materialia, 2013, 69, 92-95. | 2.6 | 23 |
| 398 | Origin of intergranular fracture in martensitic 8Mn steel at cryogenic temperatures. Scripta Materialia, 2013, 69, 420-423. | 2.6 | 54 |
| 399 | Correlative multi-scale characterization of a fine grained Ndâ€“Feâ€“B sintered magnet. Ultramicroscopy, 2013, 132, 222-226. | 0.8 | 34 |
| 400 | The mechanism of coercivity enhancement by the grain boundary diffusion process of Ndâ€“Feâ€“B sintered magnets. Acta Materialia, 2013, 61, 1982-1990. | 3.8 | 248 |
| 401 | L1$_{0}$-Ordered FePt-Based Perpendicular Magnetic Recording Media for Heat-Assisted Magnetic Recording. IEEE Transactions on Magnetics, 2013, 49, 718-722. | 1.2 | 58 |
| 402 | High-pressure torsion for enhanced atomic diffusion and promoting solid-state reactions in the aluminumâ€“copper system. Acta Materialia, 2013, 61, 3482-3489. | 3.8 | 159 |
| 403 | Structure and magnetoresistive properties of current-perpendicular-to-plane pseudo-spin valves using polycrystalline Co2Fe-based Heusler alloy films. Acta Materialia, 2013, 61, 3695-3702. | 3.8 | 13 |
| 404 | High-coercivity Ndâ€“Feâ€“B thick films without heavy rare earth additions. Acta Materialia, 2013, 61, 4920-4927. | 3.8 | 42 |
| 405 | Significant enhancement of the age-hardening response in Mgâ€“10Snâ€“3Alâ€“1Zn alloy by Na microalloying. Scripta Materialia, 2013, 68, 797-800. | 2.6 | 57 |
| 406 | The origin of the coercivity reduction of Ndâ€“Feâ€“B sintered magnet annealed below an optimal temperature. Journal of Magnetism and Magnetic Materials, 2013, 342, 4-10. | 1.0 | 19 |
| 407 | Microstructure evolution during homogenization of Alâ€“Mnâ€“Feâ€“Si alloys: Modeling and experimental results. Acta Materialia, 2013, 61, 4961-4973. | 3.8 | 68 |
| 408 | Effect of cooling rate on the microstructure evolution and mechanical properties of homogenized Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 364-370. | 2.6 | 61 |
| 409 | Influence of rolling temperature on the microstructure and mechanical properties of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 615-622. | 2.6 | 63 |
| 410 | Microstructure and mechanical properties of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets processed by combined processes of extrusion, hot rolling and ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 844-851. | 2.6 | 51 |
| 411 | Current-Perpendicular-to-Plane Giant Magnetoresistance in Pseudo Spin Valves With $hbox{Co}_{2}hbox{Fe}(hbox{Ge}_{0.5}hbox{Ga}_{0.5})$ Heusler Alloy Ferromagnetic Layers and Cu/Ag Spacer. IEEE Transactions on Magnetics, 2013, 49, 4413-4416. | 1.2 | 5 |
| 412 | Understanding precipitation processes in magnesium alloys. , 2013, , 125-151. | | 11 |
| 413 | Enhancement of giant magnetoresistance by L21 ordering in Co2Fe(Ge0.5Ga0.5) Heusler alloy current-perpendicular-to-plane pseudo spin valves. Applied Physics Letters, 2013, 103, . | 1.5 | 78 |
| 414 | Structure and magnetoresistance of current-perpendicular-to-plane pseudo spin valves using Co2Mn(Ga0.25Ge0.75) Heusler alloy. Journal of Applied Physics, 2013, 113, . | 1.1 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 415 | Electrically conductive (Mg0.2Ti0.8)O underlayer to grow FePt-based perpendicular recording media on glass substrates. Journal of Applied Physics, 2013, 113, . | 1.1 | 29 |
| 416 | âŸ¨001âŸ© textured polycrystalline current-perpendicular-to-plane pseudo spin-valves using Co2Fe(Ga0.5Ge0.5) Heusler alloy. Applied Physics Letters, 2013, 103, 202401. | 1.5 | 26 |
| 417 | Growth of a High-Quality Ultrathin Fe(001) Layer on MgO(001) by Insertion of an Ultrathin Î³-Fe<sub>2</sub>O<sub>3</sub>Layer. Applied Physics Express, 2013, 6, 113004. | 1.1 | 9 |
| 418 | On the role of Ta cap in the recrystallization process of CoFeB layers. Applied Physics Letters, 2013, 103, 142412. | 1.5 | 24 |
| 419 | Grain Refinement in Pure Mg and Mg-Zn Alloys during Hot Compression Test. , 2013, , 1249-1256. | | 2 |
| 420 | Study on CPP-GMR with Heusler Alloys for Magnetic Read Sensors of Hard Disk Drives. Materia Japan, 2013, 52, 99-107. | 0.1 | 0 |
| 421 | Spin Polarization of Alternate Monatomic Epitaxial [Fe/Co]$_{n}$ Superlattice. Japanese Journal of Applied Physics, 2012, 51, 093006. | 0.8 | 0 |
| 422 | Growth and characterization of n-type electron-induced ferromagnetic semiconductor (In,Fe)As. Applied Physics Letters, 2012, 101, . | 1.5 | 78 |
| 423 | Laser-assisted field evaporation from insulators triggered by photoinduced hole accumulation. Physical Review B, 2012, 86, . | 1.1 | 27 |
| 424 | Size estimation of embedded Cu nanoprecipitates in Fe by using affinitively trapped positrons. Physical Review B, 2012, 86, . | 1.1 | 13 |
| 425 | Transmission electron microscopy study on the effect of various capping layers on CoFeB/MgO/CoFeB pseudo spin valves annealed at different temperatures. Journal of Applied Physics, 2012, 111, . | 1.1 | 50 |
| 426 | All-metallic lateral spin valves using Co2Fe(Ge0.5Ga0.5) Heusler alloy with a large spin signal. Applied Physics Letters, 2012, 100, . | 1.5 | 75 |
| 427 | Recent Progresses of Materials Science of Rare Earth Permanent Magnet Materials and Their Perspectives. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2012, 76, 1-1. | 0.2 | 0 |
| 428 | Microstructure-Coercivity Relationships of Nd-Fe-B Base Permanent Magnets. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2012, 76, 2-11. | 0.2 | 21 |
| 429 | Effect of ball-milling surfactants on the interface chemistry in hot-compacted SmCo5 magnets. Acta Materialia, 2012, 60, 6685-6691. | 3.8 | 32 |
| 430 | Nd<sub>2</sub>Fe<sub>14</sub>B/FeCo Anisotropic Nanocomposite Films with a Large Maximum Energy Product. Advanced Materials, 2012, 24, 6530-6535. | 11.1 | 150 |
| 431 | Spin polarization and Gilbert damping of Co2Fe(GaxGe1âˆ’x) Heusler alloys. Acta Materialia, 2012, 60, 6257-6265. | 3.8 | 108 |
| 432 | Strategy for high-coercivity Ndâ€“Feâ€“B magnets. Scripta Materialia, 2012, 67, 530-535. | 2.6 | 542 |

| # | Article | IF | Citations |
|---|---|---|---|
| 433 | Structural Characterization of Sputter-Deposited 304 Stainless Steel+10 wt pct Al Coatings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2945-2954. | 1.1 | 3 |
| 434 | Development of an extruded Mgâ€“Znâ€“Ca-based alloy: new insight on the role of Mn addition in precipitation. Philosophical Magazine, 2012, 92, 1569-1582. | 0.7 | 16 |
| 435 | Enhanced tunnel magnetoresistance in a spinel oxide barrier with cation-site disorder. Physical Review B, 2012, 86, . | 1.1 | 77 |
| 436 | G-phase precipitation in austenitic stainless steel deformed by high pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 194-198. | 2.6 | 43 |
| 437 | Microstructures and mechanical properties of extruded and heat treated Mgâ€“6Znâ€“1Siâ€“0.5Mn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 553, 1-9. | 2.6 | 11 |
| 438 | Magnetic properties and spin polarization of Co2Mn(SixSn1â^'x) alloys containing two L21 phases. Journal of Alloys and Compounds, 2012, 514, 195-198. | 2.8 | 6 |
| 439 | Microstructures and mechanical properties of high-strength Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets processed by severe hot rolling. Journal of Alloys and Compounds, 2012, 524, 46-52. | 2.8 | 101 |
| 440 | Microstructure and mechanical properties of rolled sheets of Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy: As-cast versus as-homogenized. Journal of Alloys and Compounds, 2012, 528, 40-44. | 2.8 | 38 |
| 441 | Effect of Zr addition on the precipitation in Mgâ€“Zn-based alloy. Scripta Materialia, 2012, 67, 967-970. | 2.6 | 60 |
| 442 | Extruded Mgâ€“Znâ€“Caâ€“Mn alloys with low yield anisotropy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 356-365. | 2.6 | 86 |
| 443 | Effects of boron composition on tunneling magnetoresistance ratio and microstructure of CoFeB/MgO/CoFeB pseudo-spin-valve magnetic tunnel junctions. Journal of Applied Physics, 2012, 111, 043913. | 1.1 | 27 |
| 444 | Microalloying Effect on the Precipitation Processes of Mg-Ca Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3978-3987. | 1.1 | 21 |
| 445 | Co-Based Heusler Alloys for CPP-GMR Spin-Valves With Large Magnetoresistive Outputs. IEEE Transactions on Magnetics, 2012, 48, 1751-1757. | 1.2 | 44 |
| 446 | Grain boundary and interface chemistry of an Ndâ€“Feâ€“B-based sintered magnet. Acta Materialia, 2012, 60, 819-830. | 3.8 | 343 |
| 447 | The effect of the thermal decomposition reaction on the mechanical and magnetocaloric properties of La(Fe,Si,Co)13. Acta Materialia, 2012, 60, 4268-4276. | 3.8 | 76 |
| 448 | Enhanced coercivity of spark plasma sintered Zn-bonded Smâ€“Feâ€“N magnets. Scripta Materialia, 2012, 67, 153-156. | 2.6 | 32 |
| 449 | Effect of Li additions on the age hardening response and precipitate microstructures of Mgâ€“2.4Znâ€“0.16Zr based alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 535, 122-128. | 2.6 | 17 |
| 450 | Room and elevated temperature mechanical properties in the as-extruded Mgâ€“Alâ€“Caâ€“Mn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 163-169. | 2.6 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 451 | Mechanical properties and microstructures of Alâ€“1Feâ€“(0-1)Zr bulk nano-crystalline alloy processed by mechanical alloying and spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 541, 152-158. | 2.6 | 26 |
| 452 | Effects of different cooling rates during two casting processes on the microstructures and mechanical properties of extruded Mgâ€“Alâ€“Caâ€“Mn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 542, 71-78. | 2.6 | 59 |
| 453 | Ultra high-strength Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy sheets processed by large-strain hot rolling and ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 547, 93-98. | 2.6 | 214 |
| 454 | The microstructural evolution and superplastic behavior at low temperatures of Mgâ€“5.00Znâ€“0.92Yâ€“0.16Zr (wt.%) alloys after hot extrusion and ECAP process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 549, 60-68. | 2.6 | 36 |
| 455 | Microstructure and mechanical properties of the Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy fabricated by semi-continuous casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 549, 128-135. | 2.6 | 61 |
| 456 | Effect of NiAl underlayer and spacer on magnetoresistance of current-perpendicular-to-plane spin valves using Co2Mn(Ga0.5Sn0.5) Heusler alloy. Journal of Magnetism and Magnetic Materials, 2012, 324, 440-444. | 1.0 | 14 |
| 457 | Microscopic Observation of the Interface between a Tool Surface and Deposits of Low-Carbon Free Cutting Steel. Materials Transactions, 2012, 53, 1130-1137. | 0.4 | 3 |
| 458 | Age hardening behavior of Mg-1.2Sn-1.7Zn alloy containing Al. , 2012, , 181-185. | | 0 |
| 459 | Spin Polarization of Alternate Monatomic Epitaxial [Fe/Co]nSuperlattice. Japanese Journal of Applied Physics, 2012, 51, 093006. | 0.8 | 0 |
| 460 | Precipitation of nanosized nitrides in plasma nitrided Feâ€“M (Mâ€Š=â€ŠAl, Cr, Ti, V) alloys. Materials Science and Technology, 2011, 27, 742-746. | 0.8 | 34 |
| 461 | Large magnetoresistance in current-perpendicular-to-plane pseudospin valve using a Co2Fe(Ge0.5Ga0.5) Heusler alloy. Applied Physics Letters, 2011, 98, . | 1.5 | 99 |
| 462 | Oscillatory antiferromagnetic interlayer exchange coupling in Co2Fe(Al0.5Si0.5)/Ag/Co2Fe(Al0.5Si0.5) films and its application to trilayer magnetoresistive sensor. Applied Physics Letters, 2011, 99, . | 1.5 | 19 |
| 463 | Designed metamagnetism in CoMnGe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:mathxmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Revi | 1.1 | 51 |
| 464 | Interfacial resistance and spin-dependent scattering in the current-perpendicular-to-plane giant magnetoresistance using Co2Fe(Al0.5Si0.5) Heusler alloy and Ag. Journal of Applied Physics, 2011, 109, . | 1.1 | 27 |
| 465 | Microstructure Analysis of Spintronics Devices by a Transmission Electron Microscope. Hyomen Kagaku, 2011, 32, 139-144. | 0.0 | 0 |
| 466 | Carbon Enrichment in Retained Austenite Films in Low Carbon Lath Martensite Steel. ISIJ International, 2011, 51, 1200-1202. | 0.6 | 62 |
| 467 | Microscopic Observation of the Interface between a Tool Wear Surface and Deposits from a Low Carbon Free Cutting Steel Machined. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2011, 75, 516-523. | 0.2 | 1 |
| 468 | Nanoscale Characterization of Ceramics by Laser Assisted Atom Probe Tomography. Materia Japan, 2011, 50, 397-403. | 0.1 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 469 | Bi-quadratic interlayer exchange coupling in Co2MnSi/Ag/Co2MnSi pseudo spin-valve. Journal of Applied Physics, 2011, 110, . | 1.1 | 8 |
| 470 | Effect of double aging and microalloying on the age hardening behavior of a Mgâ€“Snâ€“Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 1-8. | 2.6 | 131 |
| 471 | Spin polarization measurements of Co2Mn (Ga0.5Sn0.5) thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 3092-3097. | 1.0 | 0 |
| 472 | Characterization of the microstructure of dual-phase 9Cr-ODS steels using a laser-assisted 3D atom probe. Journal of Nuclear Materials, 2011, 417, 201-204. | 1.3 | 8 |
| 473 | Precipitation of prismatic plates in Mgâ€“0.3Ca alloys with In additions. Scripta Materialia, 2011, 64, 137-140. | 2.6 | 39 |
| 474 | Microstructures and tensile properties of a twin roll cast and heat-treated Mgâ€“2.4Znâ€“0.1Agâ€“0.1Caâ€“0.1Zr alloy. Scripta Materialia, 2011, 64, 335-338. | 2.6 | 62 |
| 475 | High-strength extruded Mgâ€“Alâ€“Caâ€“Mn alloy. Scripta Materialia, 2011, 65, 269-272. | 2.6 | 214 |
| 476 | Microstructure of fine-grained Ndâ€“Feâ€“B sintered magnets with high coercivity. Scripta Materialia, 2011, 65, 396-399. | 2.6 | 165 |
| 477 | Twins, recrystallization and texture evolution of a Mgâ€“5.99Znâ€“1.76Caâ€“0.35Mn (wt.%) alloy during indirect extrusion process. Scripta Materialia, 2011, 65, 875-878. | 2.6 | 62 |
| 478 | FePtAg-C Nanogranular Film as Thermally Assisted Magnetic Recording (TAR) Media. IEEE Transactions on Magnetics, 2011, 47, 4062-4065. | 1.2 | 23 |
| 479 | Unexpected influence of Mn addition on the creep properties of a cast Mgâ€“2Alâ€“2Ca (mass%) alloy. Acta Materialia, 2011, 59, 7662-7672. | 3.8 | 75 |
| 480 | Microstructure optimization to achieve high coercivity in anisotropic Ndâ€“Feâ€“B thin films. Acta Materialia, 2011, 59, 7768-7775. | 3.8 | 95 |
| 481 | Dissimilar joining of Al/Mg light metals by compound casting process. Journal of Materials Science, 2011, 46, 6491-6499. | 1.7 | 114 |
| 482 | Effect of Mn addition on microstructure, texture and mechanical properties of Mgâ€“Znâ€“Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3741-3747. | 2.6 | 98 |
| 483 | Broadening the applications of the atom probe technique by ultraviolet femtosecond laser. Ultramicroscopy, 2011, 111, 576-583. | 0.8 | 97 |
| 484 | A plastic Zrâ€“Cuâ€“Agâ€“Al bulk metallic glass. Acta Materialia, 2011, 59, 1037-1047. | 3.8 | 55 |
| 485 | Distribution of Dy in high-coercivity (Nd,Dy)â€“Feâ€“B sintered magnet. Acta Materialia, 2011, 59, 3061-3069. | 3.8 | 132 |
| 486 | Effect of homogenization on microstructures and mechanical properties of hot compressed Mgâ€“9Alâ€“1Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2385-2393. | 2.6 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 487 | Microstructure and mechanical properties of annealed SUS 304H austenitic stainless steel with copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4491-4499. | 2.6 | 89 |
| 488 | Coercivity enhancement of HDDR-processed Ndâ€“Feâ€“B permanent magnet with the rapid hot-press consolidation process. Journal of Magnetism and Magnetic Materials, 2011, 323, 115-121. | 1.0 | 32 |
| 489 | Effect of film morphology on the magnetic properties for Ndâ€“Feâ€“B thin films. Journal of Magnetism and Magnetic Materials, 2011, 323, 162-165. | 1.0 | 17 |
| 490 | Dynamic microstructural changes during hot extrusion and mechanical properties of a Mgâ€“5.0 Znâ€“0.9 Yâ€“0.16 Zr (wt.%) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4055-4067. | 2.6 | 121 |
| 491 | Laser assisted atom probe analysis of thin film on insulating substrate. Ultramicroscopy, 2011, 111, 557-561. | 0.8 | 8 |
| 492 | Mechanism of laser assisted field evaporation from insulating oxides. Ultramicroscopy, 2011, 111, 567-570. | 0.8 | 45 |
| 493 | Quantitative laser atom probe analyses of hydrogenation-disproportionated Ndâ€“Feâ€“B powders. Ultramicroscopy, 2011, 111, 615-618. | 0.8 | 16 |
| 494 | Quantitative atom probe analyses of rare-earth-doped ceria by femtosecond pulsed laser. Ultramicroscopy, 2011, 111, 589-594. | 0.8 | 24 |
| 495 | Laser assisted field evaporation of oxides in atom probe analysis. Ultramicroscopy, 2011, 111, 562-566. | 0.8 | 65 |
| 496 | Effect of laser power and specimen temperature on atom probe analyses of magnesium alloys. Ultramicroscopy, 2011, 111, 715-718. | 0.8 | 10 |
| 497 | Atomic scale characterization of GaInN/GaN multiple quantum wells in V-shaped pits. Applied Physics Letters, 2011, 98, . | 1.5 | 53 |
| 498 | Large amplitude microwave emission and reduced nonlinear phase noise in Co2Fe(Ge0.5Ga0.5) Heusler alloy based pseudo spin valve nanopillars. Applied Physics Letters, 2011, 99, . | 1.5 | 28 |
| 499 | Effect of the number of layers on determination of spin asymmetries in current-perpendicular-to-plane giant magnetoresistance. Applied Physics Letters, 2011, 98, . | 1.5 | 11 |
| 500 | 73 mm-diameter bulk metallic glass rod by copper mould casting. Applied Physics Letters, 2011, 99, . | 1.5 | 84 |
| 501 | Influence of the wavelength on the spatial resolution of pulsed-laser atom probe. Journal of Applied Physics, 2011, 110, . | 1.1 | 16 |
| 502 | L1-ordered FePtAgâ€“C granular thin film for thermally assisted magnetic recording media (invited). Journal of Applied Physics, 2011, 109, . | 1.1 | 54 |
| 503 | Enhancement of current-perpendicular-to-plane giant magnetoresistance by insertion of Co50Fe50 layers at the Co2Mn(Ga0.5Sn0.5)/Ag interface. Journal of Applied Physics, 2011, 109, . | 1.1 | 12 |
| 504 | Low-temperature grown quaternary Heusler-compound Co<sub>2</sub>Mn<sub>1â^'x</sub>Fe<sub>x</sub>Si films on Ge(111). Journal of Applied Physics, 2011, 109, 07B113. | 1.1 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 505 | The effect of substitution of Fe with Cr on the giant magnetoresistance of current-perpendicular-to-plane spin valves with Co2FeSi Heusler alloy. Journal of Applied Physics, 2011, 109, 043901-043901-6. | 1.1 | 10 |
| 506 | Change in local environment upon quasicrystallization of Zrâ€“Cu glassy alloys by addition of Pd and Pt. Journal of Physics Condensed Matter, 2011, 23, 175303. | 0.7 | 3 |
| 507 | Crystallinity and Transport Properties in Fe/MgAl2O4/Fe (001) Epitaxial Magnetic Tunnel Junctions. Journal of the Magnetics Society of Japan, 2011, 35, 254-259. | 0.5 | 4 |
| 508 | Precipitation hardenable Mg-Ca-Al alloys. , 2011, , 245-248. | | 0 |
| 509 | Improvement of Strength and Ductility of Mg-Zn-Ca-Mn Alloy by Equal Channel Angular Pressing. , 2011, , 195-198. | | 0 |
| 510 | Metallic composites processed via extreme deformation: Toward the limits of strength in bulk materials. MRS Bulletin, 2010, 35, 982-991. | 1.7 | 180 |
| 511 | Towards the development of heat-treatable high-strength wrought Mg alloys. Scripta Materialia, 2010, 63, 710-715. | 2.6 | 274 |
| 512 | Laser-assisted three-dimensional atom probe analysis of dopant distribution in Gd-doped CeO2. Scripta Materialia, 2010, 63, 332-335. | 2.6 | 45 |
| 513 | Enhanced precipitation hardening of Mgâ€“Ca alloy by Al addition. Scripta Materialia, 2010, 63, 831-834. | 2.6 | 124 |
| 514 | Coercivity enhancement of hydrogenationâ€“disproportionationâ€“desorptionâ€“recombination processed Ndâ€“Feâ€“B powders by the diffusion of Ndâ€“Cu eutectic alloys. Scripta Materialia, 2010, 63, 1124-1127. | 2.6 | 219 |
| 515 | Improvement in creep property of a cast Mgâ€“6Alâ€“3Ca alloy by Mn addition. Scripta Materialia, 2010, 63, 1173-1176. | 2.6 | 54 |
| 516 | Effect of Al additions on the age hardening response of the Mgâ€“2.4Znâ€“0.1Agâ€“0.1Ca (at.%) alloyâ€”TEM and 3DAP study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 973-980. | 2.6 | 23 |
| 517 | Effect of Zr addition on the mechanical properties of as-extruded Mgâ€“Znâ€“Caâ€“Zr alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2356-2362. | 2.6 | 114 |
| 518 | Influence of ECAP routes on microstructure and mechanical properties of Mgâ€“Znâ€“Ca alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4250-4256. | 2.6 | 97 |
| 519 | Structural characterizations of Co2MnSi/MgO/Co2MnSi magnetic tunnel junctions by transmission electron microscopy. Journal of Magnetism and Magnetic Materials, 2010, 322, 357-361. | 1.0 | 13 |
| 520 | L10-ordered high coercivity (FePt)Agâ€“C granular thin films for perpendicular recording. Journal of Magnetism and Magnetic Materials, 2010, 322, 2658-2664. | 1.0 | 173 |
| 521 | Nano-sized disorders in hard magnetic grains and their influence on magnetization reversal at artificial Nd/Nd2Fe14B interfaces. Journal of Magnetism and Magnetic Materials, 2010, 322, 3346-3350. | 1.0 | 16 |
| 522 | High coercivity FePtâ€“C bulk magnet processed by spark plasma sintering and hot deformation. Journal of Magnetism and Magnetic Materials, 2010, 322, 3423-3427. | 1.0 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 523 | Hardening and microstructural evolution in A533B steels under neutron irradiation and a direct comparison with electron irradiation. Journal of Nuclear Materials, 2010, 400, 46-55. | 1.3 | 15 |
| 524 | Effect of Ga addition on the microstructure and magnetic properties of hydrogenationâ€“disproportionationâ€“desorptionâ€“recombination processed Ndâ€“Feâ€“B powder. Acta Materialia, 2010, 58, 1309-1316. | 3.8 | 62 |
| 525 | Coexistence of antiferromagnetism and spin polarization in double perovskite SrLaVMoO6. Journal of Physics: Conference Series, 2010, 200, 052001. | 0.3 | 4 |
| 526 | Stress-induced magnetic and structural anisotropy of nanocrystalline Fe-based alloys. Journal of Applied Physics, 2010, 108, . | 1.1 | 32 |
| 527 | Structure and transport properties of current-perpendicular-to-plane spin valves using Co2FeAl0.5Si0.5 and Co2MnSi Heusler alloy electrodes. Journal of Applied Physics, 2010, 107, . | 1.1 | 31 |
| 528 | Coherent tunneling and giant tunneling magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu tunneling junctions. Physical Review B, 2010, 81, . | 1.1 | 139 |
| 529 | Fabrication and characterization of highly textured Ndâ€“Feâ€“B thin film with a nanosized columnar grain structure. Journal of Applied Physics, 2010, 108, . | 1.1 | 17 |
| 530 | Bulk and interfacial scatterings in current-perpendicular-to-plane giant magnetoresistance with Co2Fe(Al0.5Si0.5) Heusler alloy layers and Ag spacer. Applied Physics Letters, 2010, 96, . | 1.5 | 143 |
| 531 | Current-perpendicular-to-plane spin valves with a Co2Mn(Ga0.5Sn0.5) Heusler alloy. Journal of Applied Physics, 2010, 108, 093916. | 1.1 | 23 |
| 532 | Tunnel magnetoresistance properties and film structures of double MgO barrier magnetic tunnel junctions. Applied Physics Letters, 2010, 96, . | 1.5 | 49 |
| 533 | Spin polarization of currents in Co/Pt multilayer and Coâ€“Pt alloy thin films. Applied Physics Letters, 2010, 97, . | 1.5 | 25 |
| 534 | Tunnel magnetoresistance with improved bias voltage dependence in lattice-matched Fe/spinel MgAl2O4/Fe(001) junctions. Applied Physics Letters, 2010, 96, . | 1.5 | 102 |
| 535 | Giant Peltier Effect in a Submicron-Sized Cuâ€“Ni/Au Junction with Nanometer-Scale Phase Separation. Applied Physics Express, 2010, 3, 065204. | 1.1 | 22 |
| 536 | Enhanced Spin Polarization of Co<sub>2</sub>MnGe Heusler Alloy by Substitution of Ga for Ge. Applied Physics Express, 2010, 3, 023002. | 1.1 | 44 |
| 537 | Grain boundary structure and chemistry of Dy-diffusion processed Ndâ€“Feâ€“B sintered magnets. Journal of Applied Physics, 2010, 107, . | 1.1 | 127 |
| 538 | FePtAgâ€“C nanogranular films fabricated on a heat resistant glass substrate for perpendicular magnetic recording. Journal of Applied Physics, 2010, 108, 083907. | 1.1 | 17 |
| 539 | High spin-filter efficiency in a Co ferrite fabricated by a thermal oxidation. Applied Physics Letters, 2010, 96, 072512. | 1.5 | 75 |
| 540 | Structures and spin polarization of an antiferromagnet SrLaVMoO6. Journal of the Magnetics Society of Japan, 2010, 34, 1-4. | 0.5 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 541 | Demonstration of Half-Metallicity in Fermi-Level-Tuned Heusler Alloy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>FeAl</mml:mi><mml:mn Room Temperature. Physical Review Letters, 2009, 102, 246601. | 2.9 | 238 |
| 542 | Spin-polarized tunneling spectroscopy of fully epitaxial magnetic tunnel junctions using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu alloy e. Physical Review B, 2009, 79, . | 1.1 | 42 |
| 543 | Suppression of magnon excitations in Co2MnSi Heusler alloy by Nd doping. Journal of Applied Physics, 2009, 105, . | 1.1 | 9 |
| 544 | Transmission electron microscopy investigation of CoFeB/MgO/CoFeB pseudospin valves annealed at different temperatures. Journal of Applied Physics, 2009, 106, . | 1.1 | 81 |
| 545 | Spin polarization of Fe4N thin films determined by point-contact Andreev reflection. Applied Physics Letters, 2009, 94, . | 1.5 | 63 |
| 546 | Atom-Probe Tomographic Studies of Thin Films and Multilayers. MRS Bulletin, 2009, 34, 732-737. | 1.7 | 28 |
| 547 | The role of Cu addition in the coercivity enhancement of sintered Nd-Fe-B permanent magnets. Journal of Materials Research, 2009, 24, 413-420. | 1.2 | 73 |
| 548 | Antiferromagnetism and Spin Polarization in Double Perovskite SrLaVMoO6. Applied Physics Express, 2009, 2, 013001. | 1.1 | 26 |
| 549 | Structural Defects in GaN-based Materials and Their Relation to GaN-based Laser Diodes. Materials Research Society Symposia Proceedings, 2009, 1195, 62. | 0.1 | 3 |
| 550 | Laser-Assisted Atom Probe Analysis of Bulk Insulating Ceramics. Materials Research Society Symposia Proceedings, 2009, 1231, 20901. | 0.1 | 6 |
| 551 | Interlayer thickness dependence of 90Â° exchange coupling in Co2MnAl/Cr/Co2MnAl epitaxial trilayer structures. Journal of Applied Physics, 2009, 105, 07C710. | 1.1 | 8 |
| 552 | Coercive field and energy barriers in partially disordered FePt nanoparticles. Journal of Applied Physics, 2009, 105, 07B514. | 1.1 | 5 |
| 553 | Current-perpendicular-to-plane giant magnetoresistance of a spin valve using Co2MnSi Heusler alloy electrodes. Journal of Applied Physics, 2009, 105, . | 1.1 | 46 |
| 554 | Interlayer exchange coupling in Co2FeAl0.5Si0.5/Cr/Co2FeAl0.5Si0.5 trilayers. Journal of Applied Physics, 2009, 105, 07C305. | 1.1 | 4 |
| 555 | The effect of oxygen on the surface coercivity of Nd-coated Ndâ€“Feâ€“B sintered magnets. Journal of Applied Physics, 2009, 105, . | 1.1 | 33 |
| 556 | Structure of shear bands in Pd<sub>40</sub>Ni<sub>40</sub>P<sub>20</sub>bulk metallic glass. Journal of Materials Research, 2009, 24, 1-9. | 1.2 | 53 |
| 557 | Homogeneity of the superplastic Zr<sub>64.13</sub>Cu<sub>15.75</sub>Ni<sub>10.12</sub>Al<sub>10</sub> bulk metallic glass. Journal of Materials Research, 2009, 24, 3116-3120. | 1.2 | 11 |
| 558 | Direct evidence for Cu concentration variation and its correlation to coercivity in Sm(Co0.74Fe0.1Cu0.12Zr.04)7.4 ribbons. Scripta Materialia, 2009, 60, 764-767. | 2.6 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 559 | Complementary use of transmission electron microscopy and atom probe tomography for the investigation of steels nanostructured by severe plastic deformation. Scripta Materialia, 2009, 60, 1056-1061. | 2.6 | 64 |
| 560 | The building block of long-period structures in Mgâ€“REâ€“Zn alloys. Scripta Materialia, 2009, 60, 980-983. | 2.6 | 182 |
| 561 | Heat-treatable Mgâ€“Snâ€“Zn wrought alloy. Scripta Materialia, 2009, 61, 80-83. | 2.6 | 130 |
| 562 | Precipitation hardenable Mgâ€“Biâ€“Zn alloys with prismatic plate precipitates. Scripta Materialia, 2009, 61, 72-75. | 2.6 | 46 |
| 563 | High saturation magnetization and microstructure in melt-spun Feâ€“P ribbons. Scripta Materialia, 2009, 61, 544-547. | 2.6 | 12 |
| 564 | Laser-assisted atom probe analysis of zirconia/spinel nanocomposite ceramics. Scripta Materialia, 2009, 61, 693-696. | 2.6 | 92 |
| 565 | Enhanced age-hardening and formation of plate precipitates in Mgâ€“Gdâ€“Ag alloys. Scripta Materialia, 2009, 61, 636-639. | 2.6 | 126 |
| 566 | Fabrication of extraordinary high-strength magnesium alloy by hot extrusion. Scripta Materialia, 2009, 61, 644-647. | 2.6 | 495 |
| 567 | Anisotropic Ndâ€“Feâ€“B nanocrystalline magnets processed by spark plasma sintering and in situ hot pressing of hydrogenationâ€“decompositionâ€“desorptionâ€“recombination powder. Scripta Materialia, 2009, 61, 978-981. | 2.6 | 40 |
| 568 | Influence of laser irradiation condition on a femtosecond laser-assisted tomographic atom probe. Ultramicroscopy, 2009, 109, 467-471. | 0.8 | 5 |
| 569 | Microstructure and mechanical properties of bulk nanocrystalline Alâ€“Fe alloy processed by mechanical alloying and spark plasma sintering. Acta Materialia, 2009, 57, 3529-3538. | 3.8 | 154 |
| 570 | High temperature tensile properties of as-cast Mgâ€“Alâ€“Ca alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 509, 105-110. | 2.6 | 73 |
| 571 | Microstructure and mechanical properties of Mgâ€“Znâ€“Ca alloy processed by equal channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 523, 289-294. | 2.6 | 74 |
| 572 | Age-hardening response of Mgâ€“0.3at.%Ca alloys with different Zn contents. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 526, 177-184. | 2.6 | 205 |
| 573 | 3DAP analysis of (Ga,Mn)As diluted magnetic semiconductor thin film. Ultramicroscopy, 2009, 109, 644-648. | 0.8 | 49 |
| 574 | Microstructure and mechanical properties of Alâ€“Zr nanocomposite materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 518, 100-107. | 2.6 | 66 |
| 575 | The origin of coercivity decrease in fine grained Ndâ€“Feâ€“B sintered magnets. Journal of Magnetism and Magnetic Materials, 2009, 321, 1100-1105. | 1.0 | 144 |
| 576 | Consolidation of hydrogenationâ€“disproportionationâ€“desorptionâ€“recombination processed Ndâ€“Feâ€“B magnets by spark plasma sintering. Journal of Magnetism and Magnetic Materials, 2009, 321, 3681-3686. | 1.0 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 577 | Composition and non-equilibrium crystallization in partially devitrified co-rich soft magnetic nanocomposite alloys. Acta Materialia, 2009, 57, 87-96. | 3.8 | 50 |
| 578 | Precipitation-hardenable Mgâ€“2.4Znâ€“0.1Agâ€“0.1Caâ€“0.16Zr (at.%) wrought magnesium alloy. Acta Materialia, 2009, 57, 749-760. | 3.8 | 211 |
| 579 | Effect of post-sinter annealing on the coercivity and microstructure of Ndâ€“Feâ€“B permanent magnets. Acta Materialia, 2009, 57, 1337-1346. | 3.8 | 256 |
| 580 | Highly spin-polarized Co2MnGa0.5Sn0.5 Heusler compound. Acta Materialia, 2009, 57, 2702-2709. | 3.8 | 49 |
| 581 | Bimodally grained high-strength Fe fabricated by mechanical alloying and spark plasma sintering. Acta Materialia, 2009, 57, 3277-3286. | 3.8 | 107 |
| 582 | Three-dimensional atom probe study of Feâ€“B-based nanocrystalline soft magnetic materials. Acta Materialia, 2009, 57, 4463-4472. | 3.8 | 99 |
| 583 | Mechanical alloying and amorphization in Cuâ€“Nbâ€“Ag in situ composite wires studied by transmission electron microscopy and atom probe tomography. Acta Materialia, 2009, 57, 5254-5263. | 3.8 | 158 |
| 584 | Bimodally grained microstructure development during hot extrusion of Mgâ€“2.4 Znâ€“0.1 Agâ€“0.1 Caâ€“0.16 Zr (at.%) alloys. Acta Materialia, 2009, 57, 5593-5604. | 3.8 | 202 |
| 585 | Feâ€“Taâ€“C soft underlayer for double-layered perpendicular recording media. Journal of Applied Physics, 2009, 105, 07A304. | 1.1 | 14 |
| 586 | FePt-C nanogranular films for perpendicular magnetic recording. Journal of Applied Physics, 2009, 105, . | 1.1 | 30 |
| 587 | Spin polarization of Coâ€“Fe alloys estimated by point contact Andreev reflection and tunneling magnetoresistance. Journal of Applied Physics, 2009, 105, . | 1.1 | 19 |
| 588 | The role of grain boundaries in the coercivity of hydrogenation disproportionation desorption recombination processed Ndâ€“Feâ€“B powders. Journal of Applied Physics, 2009, 105, 07A706. | 1.1 | 32 |
| 589 | Effect of melt temperature on the mechanical properties of bulk metallic glasses. Journal of Materials Research, 2009, 24, 2353-2360. | 1.2 | 41 |
| 590 | Microstructure and mechanical properties of Fe-C alloy produced by mechanical alloying and spark plasma sintering. Journal of Physics: Conference Series, 2009, 144, 012026. | 0.3 | 2 |
| 591 | Purpose and Objectives of â€œProject for High Performance Anisotropic Nanocomposite Permanent Magnets with Low Rare-Earth Contentâ€. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2009, 73, 135-140. | 0.2 | 6 |
| 592 | Geometry Constrained Plasticity of Bulk Metallic Glass. Materials Transactions, 2009, 50, 152-157. | 0.4 | 34 |
| 593 | Quantitative Femtosecond Laser Atom Probe Analysis of Rare Earth Magnets. Microscopy and Microanalysis, 2009, 15, 310-311. | 0.2 | 1 |
| 594 | Quantitative Atom Probe Tomographys of Magnesium Alloys. Microscopy and Microanalysis, 2009, 15, 14-15. | 0.2 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 595 | A New Method for Size Estimation of Cu Nano-precipitates in Fe Based on Positron Quantum-dot Confinement. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2009, 95, 118-123. | 0.1 | 3 |
| 596 | Effect of pre-aging and Al addition on age-hardening and microstructure in Mg-6wt% Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 496, 425-433. | 2.6 | 132 |
| 597 | Effect of base pressure on the structure and magnetic properties of FePt thin films. Journal of Magnetism and Magnetic Materials, 2008, 320, 250-256. | 1.0 | 13 |
| 598 | Microstructure of CoNiFeB electroless-deposited soft magnetic underlayer for perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2008, 320, 490-495. | 1.0 | 2 |
| 599 | The effect of nanocrystallization and free volume on the room temperature plasticity of Zr-based bulk metallic glasses. Acta Materialia, 2008, 56, 5329-5339. | 3.8 | 104 |
| 600 | Solute segregation and precipitation in a creep-resistant Mgâ€“Gdâ€“Zn alloy. Acta Materialia, 2008, 56, 6061-6076. | 3.8 | 356 |
| 601 | Bulk nanocrystalline Al85Ni10La5 alloy fabricated by spark plasma sintering of atomized amorphous powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 343-350. | 2.6 | 46 |
| 602 | Synthesis of high-strength bimodally grained iron by mechanical alloying and spark plasma sintering. Scripta Materialia, 2008, 58, 759-762. | 2.6 | 67 |
| 603 | A high-strength Mgâ€“Snâ€“Znâ€“Al alloy extruded at low temperature. Scripta Materialia, 2008, 59, 1111-1114. | 2.6 | 312 |
| 604 | The effect of iron addition on the spin polarization and magnetic properties of Co2CrGa Heusler alloy. Journal Physics D: Applied Physics, 2008, 41, 225002. | 1.3 | 18 |
| 605 | Current-perpendicular-to-plane giant magnetoresistance in spin-valve structures using epitaxial Co2FeAl0.5Si0.5/Ag/Co2FeAl0.5Si0.5 trilayers. Applied Physics Letters, 2008, 93, . | 1.5 | 157 |
| 606 | Coercivity mechanism of hydrogenation disproportionation desorption recombination processed Ndâ€“Feâ€“B based magnets. Applied Physics Letters, 2008, 93, . | 1.5 | 64 |
| 607 | Thermal embrittlement of Fe-based amorphous ribbons. Journal of Non-Crystalline Solids, 2008, 354, 882-888. | 1.5 | 35 |
| 608 | The enhancement of the spin polarization of Co2MnSn by Fe doping. Journal of Applied Physics, 2008, 103, 103904. | 1.1 | 12 |
| 609 | Phase relationship, microstructure and magnetocaloric effect in Gd<sub>1â^'x</sub>(Si<sub>0.5</sub>Ge<sub>0.5</sub>)<sub>x</sub>alloys. Journal Physics D: Applied Physics, 2008, 41, 055008. | 1.3 | 9 |
| 610 | Microstructure and magnetic properties of FePt-SiO2 granular films with Ag addition. Journal of Applied Physics, 2008, 103, . | 1.1 | 53 |
| 611 | Boron segregation in crystallized MgO/amorphous-Co40Fe40B20 thin films. Journal of Applied Physics, 2008, 104, 033517. | 1.1 | 40 |
| 612 | Exchange bias of spin valve structure with a top-pinned Co40Fe40B20â^•IrMn. Applied Physics Letters, 2008, 93, . | 1.5 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 613 | Particulate structure of L10 ordered ultrathin FePt films for perpendicular recording. Applied Physics Letters, 2008, 92, . | 1.5 | 75 |
| 614 | Experimentally and Numerical Study on Deep Drawing Process for Magnesium Alloy Sheet at Elevated Temperatures. Materials Transactions, 2008, 49, 1101-1106. | 0.4 | 11 |
| 615 | Characterization of Microstructures in ODS Steel by a Laser Assisted 3DAP. Materia Japan, 2008, 47, 626-626. | 0.1 | 0 |
| 616 | Ab initiopredictions for the effect of disorder and quarternary alloying on the half-metallic properties of selected Co<sub>2</sub>Fe-based Heusler alloys. Journal of Physics Condensed Matter, 2007, 19, 326216. | 0.7 | 86 |
| 617 | Effect of Cr substitution for Fe on the spin polarization of Co2CrxFe1â^'xSi Heusler alloys. Journal of Applied Physics, 2007, 102, . | 1.1 | 35 |
| 618 | High spin polarization in a two phase quaternary Heusler alloy Co2MnAl1â^'XSnX. Journal of Applied Physics, 2007, 101, 09J508. | 1.1 | 22 |
| 619 | Structural studies of secondary crystallization products of the Fe23B6-type in a nanocrystalline FeCoB-based alloy. Journal of Applied Physics, 2007, 101, 09N114. | 1.1 | 33 |
| 620 | Stressâ€“strain behaviors of Ti-based bulk metallic glass and their nanostructures. Journal of Materials Research, 2007, 22, 1406-1413. | 1.2 | 32 |
| 621 | Structural, Magnetic and Barrier Properties for Co-Ferrite Thin Films Fabricated by Plasma Oxidization. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2007, 71, 258-262. | 0.2 | 1 |
| 622 | æ°¸ä¹…ç£çŸ³ã«ãŠã‘ã‚‹ãƒŠãƒŽçµ„ç¹”ç£æ°—ç‰¹æ€§. Materia Japan, 2007, 46, 176-179. | 0.1 | 0 |
| 623 | Ni-W Amorphous/Nanocrystalline Duplex Composite Produced by Electrodeposition. Materials Transactions, 2007, 48, 996-1000. | 0.4 | 20 |
| 624 | Fabrication of Bulk Metallic Glass Sheet in Cu-47 at% Zr Alloys by ARB and Heat Treatment. Materials Transactions, 2007, 48, 1605-1609. | 0.4 | 11 |
| 625 | Glass Forming Ability and Mechanical Properties of Quinary Zr-Based Bulk Metallic Glasses. Materials Transactions, 2007, 48, 1322-1326. | 0.4 | 26 |
| 626 | Estimation of the Effective Temperature of field Evaporated Ions in a Laser-pulsed Atom Probe. Microscopy and Microanalysis, 2007, 13, . | 0.2 | 0 |
| 627 | Nanostructure Analysis by Laser Assisted 3D Atom Probe. Microscopy and Microanalysis, 2007, 13, . | 0.2 | 0 |
| 628 | Coercivity of Sm(Co0.9Cu0.1)4.8 melt-spun ribbons. Journal of Alloys and Compounds, 2007, 436, 358-363. | 2.8 | 15 |
| 629 | Large apparent compressive strain of metallic glasses. Philosophical Magazine Letters, 2007, 87, 625-635. | 0.5 | 23 |
| 630 | Spin polarization of Co2MnGe and Co2MnSi thin films with A2 and L21 structures. Journal of Applied Physics, 2007, 101, 023901. | 1.1 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 631 | Structure, magnetic property, and spin polarization of Co2FeAlxSi1â^'x Heusler alloys. Journal of Applied Physics, 2007, 102, . | 1.1 | 162 |
| 632 | Bulk mechanical alloying of Cuâ€“Ag and Cu/Zr two-phase microstructures by accumulative roll-bonding process. Acta Materialia, 2007, 55, 2885-2895. | 3.8 | 229 |
| 633 | Secondary precipitation in an Alâ€“Mgâ€“Siâ€“Cu alloy. Acta Materialia, 2007, 55, 3015-3024. | 3.8 | 183 |
| 634 | Effect of Zn additions on the age-hardening of Mgâ€“2.0Gdâ€“1.2Yâ€“0.2Zr alloys. Acta Materialia, 2007, 55, 4137-4150. | 3.8 | 441 |
| 635 | Microstructure and spin polarization of quaternary Co2Cr1â^'xVxAl, Co2V1â^'xFexAl and Co2Cr1â^'xFexAl Heusler alloys. Acta Materialia, 2007, 55, 3867-3874. | 3.8 | 57 |
| 636 | Effect of partitioning of Mn and Si on the growth kinetics of cementite in tempered Feâ€“0.6 mass% C martensite. Acta Materialia, 2007, 55, 5027-5038. | 3.8 | 186 |
| 637 | Effects of C and Ti additions on the microstructures of Nd9Fe77B14 nanocomposite magnets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 435-439. | 2.6 | 24 |
| 638 | Microstructure characterization of bulk nanocrystalline Feâ€“0.8C alloy produced by mechanical milling and spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 20-27. | 2.6 | 35 |
| 639 | Irradiation induced precipitates in vanadium alloys studied by atom probe microanalysis. Journal of Nuclear Materials, 2007, 367-370, 858-863. | 1.3 | 15 |
| 640 | Plasticity and microstructure of Zrâ€“Cuâ€“Al bulk metallic glasses. Scripta Materialia, 2007, 57, 173-176. | 2.6 | 130 |
| 641 | A high-strength bulk nanocrystalline Alâ€“Fe alloy processed by mechanical alloying and spark plasma sintering. Scripta Materialia, 2007, 57, 189-192. | 2.6 | 100 |
| 642 | Enhanced age hardening in a Mgâ€“2.4at.% Zn alloy by trace additions of Ag and Ca. Scripta Materialia, 2007, 57, 485-488. | 2.6 | 163 |
| 643 | Transmission electron microscopy of Co2(Cr1â^'xFex)Al sputtered films and their magnetic tunneling junctions. Journal of Magnetism and Magnetic Materials, 2007, 313, 378-382. | 1.0 | 8 |
| 644 | Structural and magnetic studies on spark plasma sintered SmCo5/Fe bulk nanocomposite magnets. Journal of Magnetism and Magnetic Materials, 2007, 312, 252-257. | 1.0 | 59 |
| 645 | Fabrication and Characterization of Co-Ferrite Thin Films for a Ferromagnetic Barrier in a Spin-Filtering Device Operating at Room Temperature. IEEE Transactions on Magnetics, 2007, 43, 2797-2799. | 1.2 | 0 |
| 646 | Microstructures and coercivities of SmCox and Sm(Co,Cu)5 films prepared by magnetron sputtering. Journal of Magnetism and Magnetic Materials, 2007, 310, 1-7. | 1.0 | 35 |
| 647 | Laser Assisted 3DAP Analysis of Bulk Metallic Glass. Materia Japan, 2007, 46, 810-810. | 0.1 | 0 |
| 648 | Microstructure Characterization of Precipitates in a Mg-1Gd-0.4Zn-0.1Zr Alloy by a Combination of STEM/HAADF and 3DAP Methods. Materia Japan, 2007, 46, 809-809. | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 649 | Mechanism of nanocrystalline microstructure formation in amorphousFeâ˜Nbâ˜Balloys. Physical Review B, 2006, 74, . | 1.1 | 37 |
| 650 | Nucleation-type magnetization behavior in FePt (001) particulate films. Journal of Applied Physics, 2006, 99, 033516. | 1.1 | 28 |
| 651 | Microstructure and magnetic properties of SmCo5 thin films deposited on Cu and Pt underlayers. Journal of Applied Physics, 2006, 100, 053913. | 1.1 | 38 |
| 652 | A New Role of M1 Type Dopant for Nd-Rich Nd-Fe-Co-B Nanocrystalline Ribbons. Journal of Iron and Steel Research International, 2006, 13, 215-220. | 1.4 | 0 |
| 653 | Preparation of Monodisperse and Highly CoerciveL10-FePt Nanoparticles Dispersible in Nonpolar Organic Solvents. Chemistry of Materials, 2006, 18, 5385-5388. | 3.2 | 40 |
| 654 | Spin polarization of Co2FeSi full-Heusler alloy and tunneling magnetoresistance of its magnetic tunneling junctions. Applied Physics Letters, 2006, 89, 082512. | 1.5 | 98 |
| 655 | Heat and Corrosion Resistance of Mg-Zn-Al-Ca Alloys. , 2006, , 110-115. | | 2 |
| 656 | Effects of Zr and C Additions on Magnetic Properties and Microstructures of α-Fe/Nd<SUB>2</SUB>F<SUB>14</SUB>B Nanocomposite Magnets. Materials Transactions, 2006, 47, 2399-2404. | 0.4 | 1 |
| 657 | Coercivity Control of FePt Nanoparticles by Interfacial Disorder. Materials Transactions, 2006, 47, 38-42. | 0.4 | 1 |
| 658 | Microstructure-magnetic properties relationships in nanocrystalline Nd-Fe-Co-Ge-B annealed ribbons. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 287-293. | 0.8 | 1 |
| 659 | Effect of Ti and C additions on the microstructure and magnetic properties of Nd6Pr1Fe80B13 melt-spun ribbons. Acta Materialia, 2006, 54, 4871-4879. | 3.8 | 39 |
| 660 | Microstructural investigation of white etching layer on pearlite steel rail. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 421, 191-199. | 2.6 | 137 |
| 661 | Microstructural studies and micromagnetic analysis of nanocrystalline NdFeCoMB (M = Ga, Ge) melt-spun ribbon. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 1581-1587. | 1.1 | 3 |
| 662 | Structural evolution in the supercooled liquid of Zr36Ti24Be40 metallic glass. Scripta Materialia, 2006, 54, 801-805. | 2.6 | 31 |
| 663 | Identification of the cell boundary phase in the isothermally aged commercial Sm(Co0.725Fe0.1Cu0.12Zr0.04)7.4 sintered magnet. Scripta Materialia, 2006, 54, 1345-1349. | 2.6 | 51 |
| 664 | Effect of the substitution of Ag and Ni for Cu on the glass forming ability and plasticity of Cu60Zr30Ti10 alloy. Scripta Materialia, 2006, 54, 1569-1573. | 2.6 | 52 |
| 665 | Coercivity enhancement in melt-spun SmCo5 by Sn addition. Scripta Materialia, 2006, 54, 2047-2051. | 2.6 | 39 |
| 666 | Enhanced age hardening response by the addition of Zn in Mgâ€“Sn alloys. Scripta Materialia, 2006, 55, 251-254. | 2.6 | 250 |

| # | Article | IF | Citations |
|---|---|---|---|
| 667 | Glass formation and phase separation in the Agâ€“Cuâ€“Zr system. Scripta Materialia, 2006, 55, 449-452. | 2.6 | 50 |
| 668 | Phase separation and glass-forming abilities of ternary alloys. Scripta Materialia, 2006, 55, 421-424. | 2.6 | 28 |
| 669 | Magnetic properties and microstructure of Fe3B/Pr2Fe14B-type nanocomposite magnets with Co and Cr additions. Journal of Magnetism and Magnetic Materials, 2006, 299, 136-144. | 1.0 | 17 |
| 670 | Atom Probe Characterization of Microstructures of Nanocrystalline and Nanocomposite Magnetic Materials. , 2006, , 639-682. | | 0 |
| 671 | Current-perpendicular-to-plane magnetoresistance in epitaxial Co2MnSiâˆ•Crâˆ•Co2MnSi trilayers. Applied Physics Letters, 2006, 88, 222504. | 1.5 | 133 |
| 672 | Microstructure, Magnetic Properties, and Spin Polarization of Quaternary Heusler Alloys. , 2006, , . | | 0 |
| 673 | Magnetization reversal of FePt hard/soft stacked nanocomposite particle assembly. Journal of Applied Physics, 2006, 100, 074305. | 1.1 | 33 |
| 674 | Spin polarization of quaternary Co2Cr1â^'xFexAl Heusler alloys. Applied Physics Letters, 2006, 89, 052505. | 1.5 | 43 |
| 675 | Formation of octahedral FePt nanoparticles by alternate deposition of FePt and MgO. Applied Physics Letters, 2006, 88, 063117. | 1.5 | 56 |
| 676 | Particulate structure of FePt thin films enhanced by Au and Ag alloying. Journal of Applied Physics, 2006, 100, 056105. | 1.1 | 51 |
| 677 | Self-assembled metallic nanoparticles for spin dependent single electron tunneling. Phase Transitions, 2006, 79, 717-726. | 0.6 | 6 |
| 678 | TMR Properties for magnetic tunnel junctions with a disordered Co<sub>2</sub>(Cr<sub>1-<i>x</i></sub>Fe<sub><i>x</i></sub>)Al electrode. Journal of the Magnetics Society of Japan, 2006, 30, 366-369. | | 0 |
| 679 | Characterization of Nanocrystal Dispersed Cu<SUB>60</SUB>Zr<SUB>30</SUB>Ti<SUB>10</SUB> Metallic Glass. Materials Transactions, 2005, 46, 1264-1270. | 0.4 | 33 |
| 680 | Primary Crystallization of an Al<SUB>88</SUB>Gd<SUB>6</SUB>Er<SUB>2</SUB>Ni<SUB>4</SUB> Metallic Glass. Materials Transactions, 2005, 46, 2880-2885. | 0.4 | 20 |
| 681 | Metallic nanostructures characterized by three-dimensional atom probe. Microscopy and Microanalysis, 2005, 11, . | 0.2 | 0 |
| 682 | Hardening and microstructural evolution in A533B steels under high-dose electron irradiation. Journal of Nuclear Materials, 2005, 340, 247-258. | 1.3 | 38 |
| 683 | Microstructural evolution in 13Crâ€“8Niâ€“2.5Moâ€“2Al martensitic precipitation-hardened stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 394, 285-295. | 2.6 | 164 |
| 684 | Chemistry of nanoscale precipitates in Mgâ€“2.1Gdâ€“0.6Yâ€“0.2Zr (at.%) alloy investigated by the atom probe technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 395, 301-306. | 2.6 | 235 |

| # | Article | IF | Citations |
|---|---|---|---|
| 685 | Early crystallization stages in a Zrâ€“Cuâ€“Niâ€“Alâ€“Ti metallic glass. Acta Materialia, 2005, 53, 2091-2099. | 3.8 | 50 |
| 686 | Investigation on structure-magnetic property correlation in melt-spun Sm(Co0.56Fe0.31Cu0.04Zr0.05B0.04)z ribbons. Journal of Magnetism and Magnetic Materials, 2005, 292, 150-158. | 1.0 | 10 |
| 687 | Nanoscale microstructure and magnetic properties of melt-spun Sm(Co0.725Fe0.1Cu0.12Zr0.04B0.015)7.4 ribbons. Journal of Magnetism and Magnetic Materials, 2005, 295, 7-20. | 1.0 | 21 |
| 688 | Characterization of nanocrystalline ferrite produced by mechanical milling of pearlitic steel. Scripta Materialia, 2005, 52, 271-276. | 2.6 | 89 |
| 689 | Mechanically milled and spark plasma sintered FePt-based bulk magnets with high coercivity. Scripta Materialia, 2005, 52, 761-765. | 2.6 | 27 |
| 690 | Phase separation in Cu43Zr43Al7Ag7 bulk metallic glass. Scripta Materialia, 2005, 53, 165-169. | 2.6 | 196 |
| 691 | Platelet microstructure and magnetic properties in rapidly solidified Sm20.8Co63.4Fe7.9Cu2.4Zr1.6B4 ribbons. Scripta Materialia, 2005, 53, 367-371. | 2.6 | 9 |
| 692 | On low-temperature ordering of FePt films. Scripta Materialia, 2005, 53, 403-409. | 2.6 | 63 |
| 693 | Nanostructure analysis of friction welded Pdâ€“Niâ€“P/Pdâ€“Cuâ€“Niâ€“P metallic glass interface. Scripta Materialia, 2005, 53, 493-497. | 2.6 | 22 |
| 694 | Heating rate dependence of glass transition and primary crystallization of AlGdErNi metallic glass. Scripta Materialia, 2005, 53, 681-685. | 2.6 | 8 |
| 695 | TEM and 3DAP characterization of an age-hardened Mgâ€“Caâ€“Zn alloy. Scripta Materialia, 2005, 53, 675-679. | 2.6 | 162 |
| 696 | Fabrication of bulk nanocrystalline Feâ€“C alloy by spark plasma sintering of mechanically milled powder. Scripta Materialia, 2005, 53, 863-868. | 2.6 | 97 |
| 697 | Magnetic properties and microstructure of the granular films processed by annealing FePt-based multilayers. IEEE Transactions on Magnetics, 2005, 41, 3799-3801. | 1.2 | 4 |
| 698 | Control of the size for octahedral FePt nanoparticles and their magnetic properties. IEEE Transactions on Magnetics, 2005, 41, 3373-3375. | 1.2 | 4 |
| 699 | In-situ quasicrystal-reinforced magnesium matrix composite processed by equal channel angular extrusion (ECAE). Journal of Materials Science, 2005, 40, 2587-2590. | 1.7 | 41 |
| 700 | Thermal Exposure Behaviour of Aluminum Borate Whisker Reinforced Magnesium Matrix Composites. , 2005, , 366-371. | | 1 |
| 701 | Influence of Be on the Glass Forming Ability and Thermal Stability of Al-Based Metallic Glasses. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 491-494. | 0.1 | 0 |
| 702 | Bulk Mechanical Alloying of Zr-Cu System by Accumulative Roll Bonding (ARB). Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 643-646. | 0.1 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 703 | Domain structures and magnetic ice-order in NiFe nano-network with honeycomb structure. Journal of Applied Physics, 2005, 97, 10J710. | 1.1 | 19 |
| 704 | Quantitative analysis of ordering of equiatomic FePt nanoparticles by electron diffraction. , 2005, , . | | 0 |
| 705 | Mechanism of induced magnetic anisotropy in metal-nonmetal granular films and their enhancement by a high field annealing. , 2005, , . | | 0 |
| 706 | Size effect on the ordering ofL10FePt nanoparticles. Physical Review B, 2005, 72, . | 1.1 | 136 |
| 707 | Origin of the magnetic anisotropy induced by stress annealing in Fe-based nanocrystalline alloy. Applied Physics Letters, 2005, 86, 152513. | 1.5 | 57 |
| 708 | Nanoconstricted structure for current-confined path in current-perpendicular-to-plane spin valves with high magnetoresistance. Journal of Applied Physics, 2005, 97, 10C509. | 1.1 | 16 |
| 709 | Magnetic properties and microstructures of Feâ€“Pt thin films sputter deposited under partial nitrogen gas flow. Journal of Applied Physics, 2005, 98, 013902. | 1.1 | 19 |
| 710 | Composition and structure of Cu-based nanoicosahedral phase in Cuâ€“Zrâ€“Tiâ€“Pd alloy. Applied Physics Letters, 2005, 87, 211918. | 1.5 | 9 |
| 711 | Self-alignment of Fe nanoparticles on a tunnel barrier. Applied Physics Letters, 2005, 87, 033115. | 1.5 | 9 |
| 712 | High coercivity in FePt-based bulk magnets. , 2005, , . | | 0 |
| 713 | Control of the size of octahedral FePt nano-dots and their magnetic properties. , 2005, , . | | 0 |
| 714 | Enhancement of glass forming ability and plasticity by addition of Nb in Cuâ€“Tiâ€“Zrâ€“Niâ€“Si bulk metallic glasses. Journal of Non-Crystalline Solids, 2005, 351, 1232-1238. | 1.5 | 101 |
| 715 | Sm(Co,Cu)5âˆ•Fe exchange spring multilayer films with high energy product. Applied Physics Letters, 2005, 86, 122509. | 1.5 | 142 |
| 716 | Microstructure and Magnetic Property of Nd-Pr-Fe-B (-Ti-C) Melt-spun Ribbon. Materia Japan, 2005, 44, 978-978. | 0.1 | 0 |
| 717 | Atom Probe Characterization of Nanoscale Precipitates in Aluminum Alloys. , 2005, , 677-700. | | 0 |
| 718 | Study on the Mechanical Relaxations of a Zr36Ti24Be40 Amorphous Alloy by Timeâ€“Temperature Superposition Principle. Journal of the Physical Society of Japan, 2004, 73, 3192-3197. | 0.7 | 37 |
| 719 | Focused ion beam fabrication of field-ion microscope specimens from mechanically milled pearlitic steel powder. Journal of Electron Microscopy, 2004, 53, 523-525. | 0.9 | 13 |
| 720 | Interfacial disorder in the L10 FePt particles capped with amorphous Al2O3. Applied Physics Letters, 2004, 84, 383-385. | 1.5 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 721 | Influence of the buffer layers on magnetic properties of FePt (001) films sputter-deposited at reduced temperature. Journal of Applied Physics, 2004, 96, 1127-1132. | 1.1 | 39 |
| 722 | Assembly of FePt L10 nanoparticles grown on MgO(110) with self-organized groove structure. Journal of Applied Physics, 2004, 96, 5217-5221. | 1.1 | 7 |
| 723 | Spin-dependent single-electron-tunneling effects in epitaxial Fe nanoparticles. Applied Physics Letters, 2004, 84, 3106-3108. | 1.5 | 38 |
| 724 | Rapidly solidified (FePt)70P30 alloy with high coercivity. Applied Physics Letters, 2004, 85, 789-791. | 1.5 | 32 |
| 725 | Microstructure and magnetic properties of melt-spun Sm(Co0.58Fe0.31Cu0.04Zr0.05B0.02)z ribbons. Journal of Applied Physics, 2004, 95, 4962-4967. | 1.1 | 23 |
| 726 | Embedded Ultrafine Clusters Investigated by Coincidence Doppler Broadening Spectroscopy. Materials Science Forum, 2004, 445-446, 11-15. | 0.3 | 4 |
| 727 | Irradiation-Induced Defects and Cu Precipitates in Ternary Fe-Based Model Alloys for Nuclear Reactor Pressure Vessel Steels Studied by Positron Annihilation and 3D Atom Probe. Materials Science Forum, 2004, 445-446, 195-197. | 0.3 | 3 |
| 728 | Microstructural evolution and the magnetic properties of melt-spun Smâ€“Coâ€“Cuâ€“B and Smâ€“Coâ€“Feâ€“Cuâ€“B ribbons. Journal of Magnetism and Magnetic Materials, 2004, 284, 321-329. | 1.0 | 12 |
| 729 | Selective electrochemical dissolution in two-phase La?Zr?Al?Cu?Ni metallic glass. Scripta Materialia, 2004, 51, 961-965. | 2.6 | 37 |
| 730 | APFIM/TEM/SAXS studies of early stage crystallization of a Zr52.5Cu17.9Ni14.6Al10Ti5 metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 738-743. | 2.6 | 22 |
| 731 | Magnetic properties of nanocrystalline Feâ€“Coâ€“Cuâ€“Mâ€“Siâ€“B alloys (M: Nb, Zr). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 207-212. | 2.6 | 42 |
| 732 | Microstructural characterization of Î±-Fe/Smâ€“Feâ€“N nanocomposite hard magnets. Journal of Magnetism and Magnetic Materials, 2004, 277, 337-343. | 1.0 | 9 |
| 733 | Fabrication of L10 ordered FePt thin films with a canted easy magnetization axis on MgO (1 1 0) substrate. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E557-E559. | 1.0 | 11 |
| 734 | Effects of Zr and C additions on the magnetic properties and structures of melt-spun Fe83Nd10B7-based nanocomposite magnets. Journal of Magnetism and Magnetic Materials, 2004, 278, 68-75. | 1.0 | 18 |
| 735 | The microstructure of sintered Sm(Co0.72Fe0.20Cu0.055Zr0.025)7.5 permanent magnet studied by atom probe. Acta Materialia, 2004, 52, 737-748. | 3.8 | 178 |
| 736 | Coincidence Doppler broadening and 3DAP study of the pre-precipitation stage of an Alâ€“Liâ€“Cuâ€“Mgâ€“Ag alloy. Acta Materialia, 2004, 52, 1997-2003. | 3.8 | 38 |
| 737 | In situ formed two-phase metallic glass with surface fractal microstructure. Acta Materialia, 2004, 52, 2441-2448. | 3.8 | 239 |
| 738 | Nanocrystallization of Zr41.2Ti13.8Cu12.5Ni10.0Be22.5 metallic glass. Acta Materialia, 2004, 52, 4427-4435. | 3.8 | 120 |

| # | Article | IF | Citations |
|---|---|---|---|
| 739 | Microstructure evolution upon devitrification and crystallization kinetics of Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 melt-spun glassy ribbon. Journal of Applied Physics, 2004, 95, 3397-3403. | 1.1 | 29 |
| 740 | Size dependence of ordering in FePt nanoparticles. Journal of Applied Physics, 2004, 95, 2690-2696. | 1.1 | 167 |
| 741 | On the criteria for the formation of nanoquasicrystalline phase. Applied Physics Letters, 2004, 84, 1674-1676. | 1.5 | 23 |
| 742 | Coercivity exceeding 100kOe in epitaxially grown FePt sputtered films. Applied Physics Letters, 2004, 85, 2571-2573. | 1.5 | 228 |
| 743 | The effect of Cu on mechanical and precipitation properties of Alâ€“Znâ€“Mg alloys. Journal of Alloys and Compounds, 2004, 378, 52-60. | 2.8 | 124 |
| 744 | Optimum Compositions for the Low-Temperature Fabrication of Highly Ordered FePt. IEEE Transactions on Magnetics, 2004, 40, 2522-2524. | 1.2 | 13 |
| 745 | Microstructure and magnetic properties of FePt and Fe/FePt polycrystalline films with high coercivity. Journal of Applied Physics, 2004, 96, 475-481. | 1.1 | 91 |
| 746 | Factors Controlling Irradiation Hardening of Iron-Copper Model Alloy. Materials Transactions, 2004, 45, 338-341. | 0.4 | 15 |
| 747 | Nanostructure Observation of Current-Confined-Path (CCP) CPP-GMR Spin-Valve Film. Materia Japan, 2004, 43, 1031-1031. | 0.1 | 1 |
| 748 | Interface of Al18B4O33w/AZ91 magnesium matrix composite after thermal exposure at 600 Â°C. Journal of Materials Science Letters, 2003, 22, 1709-1712. | 0.5 | 7 |
| 749 | Atom probe characterization of plate-like precipitates in a Mgâ€“REâ€“Znâ€“Zr casting alloy. Scripta Materialia, 2003, 48, 1017-1022. | 2.6 | 144 |
| 750 | Magnetic properties of nanocrystalline FeMCuNbSiB alloys (M: Co, Ni). Scripta Materialia, 2003, 48, 863-868. | 2.6 | 109 |
| 751 | Annealing effect on the soft magnetic properties of high moment FeCoâ€“O thin films. Scripta Materialia, 2003, 48, 903-908. | 2.6 | 28 |
| 752 | Alloying of immiscible phases in wire-drawn Cuâ€“Ag filamentary composites. Scripta Materialia, 2003, 48, 1569-1574. | 2.6 | 37 |
| 753 | Crystallization of Ti36Zr24Be40 metallic glass. Scripta Materialia, 2003, 49, 729-734. | 2.6 | 68 |
| 754 | Enhanced magnetic properties of Ndâ€“Feâ€“B thin films crystallized by heat treatment. Journal of Magnetism and Magnetic Materials, 2003, 260, 406-414. | 1.0 | 19 |
| 755 | Microstructure of soft magnetic FeCoâ€“O(â€“Zr) films with high saturation magnetization. Journal of Magnetism and Magnetic Materials, 2003, 265, 83-93. | 1.0 | 11 |
| 756 | Microstructure and magnetic properties of FePt thin films epitaxially grown on MgO (001) substrates. Journal of Magnetism and Magnetic Materials, 2003, 267, 248-255. | 1.0 | 85 |

| # | Article | IF | Citations |
|---|---|---|---|
| 757 | High coercivity and magnetic domain observation in epitaxially grown particulate FePt thin films. Journal of Magnetism and Magnetic Materials, 2003, 266, 171-177. | 1.0 | 30 |
| 758 | Effects of incidence angles of ions on the mass resolution of an energy compensated 3D atom probe. Ultramicroscopy, 2003, 95, 231-238. | 0.8 | 52 |
| 759 | Microstructural control of Nb addition in nanocrystalline hard magnets with different Nd content. IEEE Transactions on Magnetics, 2003, 39, 2935-2937. | 1.2 | 17 |
| 760 | FeCoâ€“Zrâ€“O nanogranular soft-magnetic thin films with a high magnetic flux density. Applied Physics Letters, 2003, 82, 946-948. | 1.5 | 74 |
| 761 | L10 ordering of off-stoichiometric FePt (001) thin films at reduced temperature. Applied Physics Letters, 2003, 82, 2461-2463. | 1.5 | 113 |
| 762 | Optimization of the microstructure and properties of Co-substituted Feâ€“Siâ€“Bâ€“Nbâ€“Cu nanocrystalline soft magnetic alloys. Journal of Applied Physics, 2003, 93, 9186-9194. | 1.1 | 69 |
| 763 | Size effect on the ordering of FePt granular films. Journal of Applied Physics, 2003, 93, 7166-7168. | 1.1 | 138 |
| 764 | Direct evidence for structural origin of stress-induced magnetic anisotropy in Feâ€“Siâ€“Bâ€“Nbâ€“Cu nanocrystalline alloys. Applied Physics Letters, 2003, 83, 2859-2861. | 1.5 | 59 |
| 765 | Ordering process of sputtered FePt films. Journal of Applied Physics, 2003, 93, 7580-7582. | 1.1 | 51 |
| 766 | Structure and magnetic properties of high coercive NdFeB films with a perpendicular anisotropy. Applied Physics Letters, 2003, 82, 1751-1753. | 1.5 | 61 |
| 767 | Age Hardening of Ultrafine Grained Al-Ti-Cr Alloys Fabricated by Continuous Electron Beam Evaporation. Materials Transactions, 2003, 44, 1955-1961. | 0.4 | 1 |
| 768 | Microstructure of Rapidly Solidified High Strength Al<SUB>94</SUB>V<SUB>4</SUB>Fe<SUB>2</SUB> Alloy. Materials Transactions, 2003, 44, 1993-1998. | 0.4 | 4 |
| 769 | 3DAP and TEM analysis of crystallization in Zr-Ti-Cu-Ni-Be metallic glass. Microscopy and Microanalysis, 2003, 9, 576-577. | 0.2 | 0 |
| 770 | Effects of V and Si additions on the coercivity and microstructure of nanocomposite Fe3B/Nd2Fe14B magnets. Journal of Applied Physics, 2002, 91, 9308-9314. | 1.1 | 22 |
| 771 | Magnetic properties and microstructures of Î±-Fe/Nd[sub 2]Fe[sub 14]B nanocomposite microalloyed with Zr. Journal of Applied Physics, 2002, 91, 8174. | 1.1 | 34 |
| 772 | Preparation and magnetic properties of highly coercive FePt films. Applied Physics Letters, 2002, 81, 1050-1052. | 1.5 | 273 |
| 773 | Local chemistry of a nanocrystalline high-strength Mg 97 Y 2 Zn 1 alloy. Philosophical Magazine Letters, 2002, 82, 543-551. | 0.5 | 126 |
| 774 | 3æ¬¡å…ƒã‚¢ãƒˆãƒ—ãƒãƒ¼ã«ã‚ˆã‚‹ŠãƒŽçµæ™¶ç£æ€§æææ–™ã®è§£æž Materia Japan, 2002, 41, 880-881 | 0.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 775 | Microstructure Feature of Bulk Glassy Cu<SUB>60</SUB>Zr<SUB>30</SUB>Ti<SUB>10</SUB> Alloy in As-cast and Annealed States. Materials Transactions, 2002, 43, 2647-2650. | 0.4 | 37 |
| 776 | Effect of Co or Ge doping on the intergranular magnetic coupling in nanocrystalline Fe[sub 89]Zr[sub 7]B[sub 3]Cu[sub 1]. Journal of Applied Physics, 2002, 91, 8417. | 1.1 | 30 |
| 777 | Coincidence Doppler broadening study of the pre-precipitation stage of an Al[sbnd]Cu[sbnd]Mg[sbnd]Ag alloy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 1559-1572. | 0.8 | 23 |
| 778 | Nanocrystallization of Pd74Si18Au8 metallic glass. Intermetallics, 2002, 10, 1053-1060. | 1.8 | 10 |
| 779 | Microstructure and magnetic properties of microalloyed Î±-Fe/Nd2Fe14B nanocomposites. Journal of Magnetism and Magnetic Materials, 2002, 239, 437-440. | 1.0 | 20 |
| 780 | The decomposed Î³-phase microstructure in a Mnâ€“Cuâ€“Niâ€“Fe alloy studied by HRTEM and 3D atom probe. Scripta Materialia, 2002, 46, 717-722. | 2.6 | 20 |
| 781 | Effect of Cu on the structure and magnetic properties of FePt sputtered film. Journal of Magnetism and Magnetic Materials, 2002, 246, 259-265. | 1.0 | 144 |
| 782 | Nanoscale microstructural analysis of metallic materials by atom probe field ion microscopy. Progress in Materials Science, 2002, 47, 621-729. | 16.0 | 180 |
| 783 | Squeeze cast Al18B4O33 whisker-reinforced magnesium matrix composite. Journal of Materials Science Letters, 2002, 21, 533-535. | 0.5 | 13 |
| 784 | Fabrication and Characteristics of Ordered Ni Nanostructures on Glass by Anodization and Direct Current Electrodeposition. Chemistry of Materials, 2002, 14, 4595-4602. | 3.2 | 128 |
| 785 | Local structure of amorphous Zr70Pd30 alloy studied by electron diffraction. Applied Physics Letters, 2001, 79, 485-487. | 1.5 | 102 |
| 786 | Artificial modulation of magnetic structures on a monatomic layer scale in Co/Ru superlattices. Applied Physics Letters, 2001, 78, 1436-1438. | 1.5 | 37 |
| 787 | Magnetic superlattices fabricated by monoatomic layer control. Surface Science, 2001, 493, 713-720. | 0.8 | 6 |
| 788 | High-Resolution Nano Area Analysis of Plate like Precipitate in Aluminum Alloy Employed with Z-contrast and Drift Corrected EDS Mapping. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2001, 65, 419-422. | 0.2 | 2 |
| 789 | Nanocrystalline Icosahedral Phase Formation in Melt Spun Ti-Zr-Ni Alloys. Materials Transactions, 2001, 42, 372-375. | 0.4 | 22 |
| 790 | Microstructures and the Magnetic Properties of Fe<SUB>3</SUB>B/(Nd,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (Dy)<SUB>2</SU Transactions, 2001, 42, 1858-1861. | 0.4 | 6 |
| 791 | The effect of Cu additions on the precipitation kinetics in an Al-Mg-Si alloy with excess Si. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 239-246. | 1.1 | 160 |
| 792 | The effects of a trace addition of silver upon elevated temperature ageing of an Alâ€“Znâ€“Mg alloy. Micron, 2001, 32, 741-747. | 1.1 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 793 | Microstructure of two-phase Alâ€“1.7 at% Cu alloy deformed by equal-channel angular pressing. Acta Materialia, 2001, 49, 21-29. | 3.8 | 351 |
| 794 | Solid state amorphization in cold drawn Cu/Nb wires. Acta Materialia, 2001, 49, 389-394. | 3.8 | 139 |
| 795 | Role of vacancyâ€“solute complex in the initial rapid age hardening in an Alâ€“Cuâ€“Mg alloy. Acta Materialia, 2001, 49, 913-920. | 3.8 | 161 |
| 796 | Nanoquasicrystalline phase formation in binary Zrâ€“Pd and Zrâ€“Pt alloys. Acta Materialia, 2001, 49, 3453-3462. | 3.8 | 62 |
| 797 | Atom probe studies of microstructural evolution in Ndâ€“Feâ€“B-based nanocomposite magnets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 81-87. | 2.6 | 14 |
| 798 | Nanostructured Al88Ni4Sm8 alloys investigated by transmission electron and field-ion microscopies. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 315-320. | 2.6 | 39 |
| 799 | APFIM and TEM study of the oxygen behavior during crystallization of Zr65Cu27.5Al7.5 metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 706-709. | 2.6 | 5 |
| 800 | Low-Temperature Fabrication of High-Coercivity L10 Ordered FePt Magnetic Thin Films by Sputtering. Japanese Journal of Applied Physics, 2001, 40, L1367-L1369. | 0.8 | 44 |
| 801 | Nanoquasicrystallization of Zr-based metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 312, 253-261. | 2.6 | 51 |
| 802 | Microstructure and properties of nanocrystalline Feâ€“Zrâ€“Nbâ€“B soft magnetic alloys with low magnetostriction. Acta Materialia, 2001, 49, 4069-4077. | 3.8 | 61 |
| 803 | Role of Ag and Mg on precipitation of T1 phase in an Al-Cu-Li-Mg-Ag alloy. Scripta Materialia, 2001, 44, 701-706. | 2.6 | 100 |
| 804 | Mechanism of heterogeneous nucleation of Î±-Fe nanocrystals from Fe89Zr7B3Cu1 amorphous alloy. Scripta Materialia, 2001, 44, 971-976. | 2.6 | 57 |
| 805 | Cementite decomposition in heavily drawn pearlite steel wire. Scripta Materialia, 2001, 44, 977-983. | 2.6 | 240 |
| 806 | Microstructure of hard magnetic bccFe/NdFeB nanocomposite alloys. Scripta Materialia, 2001, 44, 1375-1378. | 2.6 | 23 |
| 807 | Microstructural investigation on the influence of V in Î±-Fe/Nd2Fe14B nanocomposite magnet. Scripta Materialia, 2001, 44, 2399-2404. | 2.6 | 11 |
| 808 | Influence of heating rate on the microstructure and magnetic properties of Fe3B/Nd2Fe14B nanocomposite magnets. Scripta Materialia, 2001, 45, 355-362. | 2.6 | 29 |
| 809 | Microstructural characterization of (Fe0.5Co0.5)88Zr7B4Cu1 nanocrystalline alloys. Scripta Materialia, 2001, 45, 781-786. | 2.6 | 85 |
| 810 | Î²-FeSi2Single Crystals Grown from Solution. Japanese Journal of Applied Physics, 2001, 40, 1367-1369. | 0.8 | 52 |

| # | Article | IF | Citations |
|---|---|---|---|
| 811 | Overlayer-induced anisotropic alignment of Nd2Fe14B nanograins. Applied Physics Letters, 2001, 78, 2049-2051. | 1.5 | 22 |
| 812 | Microstructures of FePtâ€“Alâ€“O and FePtâ€“Ag nanogranular thin films and their magnetic properties. Journal of Applied Physics, 2001, 90, 4708-4716. | 1.1 | 99 |
| 813 | Formation of Nanocrystalline Particles in Glassy Matrix in Melt-Spun Mg–Cu–Y Based Alloys. Materials Transactions, JIM, 2000, 41, 1538-1544. | 0.9 | 42 |
| 814 | Influence of oxygen on the crystallization behavior of Zr65Cu27.5Al7.5 and Zr66.7Cu33.3 metallic glasses. Acta Materialia, 2000, 48, 3985-3996. | 3.8 | 165 |
| 815 | Small-angle neutron scattering and differential scanning calorimetry studies on the copper clustering stage of Feâ€“Siâ€“Bâ€“Nbâ€“Cu nanocrystalline alloys. Acta Materialia, 2000, 48, 4783-4790. | 3.8 | 105 |
| 816 | Icosahedral phase formation by the primary crystallization of a Zr-Cu-Pd metallic glass. Scripta Materialia, 2000, 43, 103-107. | 2.6 | 57 |
| 817 | Atom Probe Studies of Nanocrystallization of Amorphous Alloys. Materials Characterization, 2000, 44, 203-217. | 1.9 | 43 |
| 818 | Microstructural Evolution and Age Hardening in Aluminium Alloys. Materials Characterization, 2000, 44, 101-131. | 1.9 | 446 |
| 819 | Microstructural characterization of a rapidly solidified ultrahigh strength Al94.5Cr3Co1.5Ce1 alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 607-614. | 1.1 | 22 |
| 820 | Microstructures and magnetic properties of Coâ€“Alâ€“O granular thin films. Journal of Applied Physics, 2000, 87, 817-823. | 1.1 | 86 |
| 821 | Microstructure and magnetic properties of FePtâ€“Alâ€“O granular thin films. Applied Physics Letters, 2000, 76, 3971-3973. | 1.5 | 152 |
| 822 | Nanoquasicrystallization of binary Zrâ€“Pd metallic glasses. Applied Physics Letters, 2000, 77, 1102-1104. | 1.5 | 84 |
| 823 | Direct evidence for oxygen stabilization of icosahedral phase during crystallization of Zr65Cu27.5Al7.5 metallic glass. Applied Physics Letters, 2000, 76, 55-57. | 1.5 | 143 |
| 824 | Microstructural characterization of an Î±-Fe/Nd2Fe14B nanocomposite magnet with a remaining amorphous phase. Journal of Applied Physics, 2000, 87, 8658-8665. | 1.1 | 68 |
| 825 | Microalloying Effect on Fe<SUB>3</SUB>B/Nd<SUB>2</SUB>Fe<SUB>14</SUB>B Nanocomposite Microstucture. Materia Japan, 2000, 39, 999-999. | 0.1 | 0 |
| 826 | Microalloying effect of Cu and Nb on the microstructure and magnetic properties of Fe/sub 3/B/Nd/sub 2/Fe/sub 14/B nanocomposite permanent magnets. IEEE Transactions on Magnetics, 1999, 35, 3262-3264. | 1.2 | 5 |
| 827 | Oxygen Distribution in Zr<sub>65</sub>Cu<sub>15</sub>Al<sub>10</sub>Pd<sub>10</sub> Nanocrystalline Alloys. Materials Science Forum, 1999, 307, 31-36. | 0.3 | 7 |
| 828 | Distribution of Co Particles ini Co-Al-O Granular Thin Films. Materials Science Forum, 1999, 307, 171-176. | 0.3 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 829 | APFIM Studies of Nanocomposite Soft and Hard Magnetic Materials. Materials Science Forum, 1999, 307, 69-74. | 0.3 | 7 |
| 830 | APFIM Studies of Nanocomposite Soft and Hard Magnetic Materials. Journal of Metastable and Nanocrystalline Materials, 1999, 1, 69-74. | 0.1 | 1 |
| 831 | Oxygen Distribution in Zr<sub>65</sub>Cu<sub>15</sub>Al<sub>10</sub>Pd<sub>10</sub> Nanocrystalline Alloys. Journal of Metastable and Nanocrystalline Materials, 1999, 1, 31-36. | 0.1 | 3 |
| 832 | Effect of Cu andNb on the microstructure and magnetic properties of Fe/sub 2/B/Nd/sub 2/Fe/sub 14/B nanocomposite permanent magnets. , 1999, , . | | 0 |
| 833 | Atom probe characterization of an /spl alpha/-Fe/Nd/sub 2/Fe/sub 14/B nanocomposite magnet with the remaining amorphous phase. , 1999, , . | | 2 |
| 834 | Atom probe characterization of an Î±-Fe/Nd/sub 2/Fe/sub 14/B nanocomposite magnet with a remaining amorphous phase. IEEE Transactions on Magnetics, 1999, 35, 3295-3297. | 1.2 | 8 |
| 835 | Mechanism of grain size refinement of Fe3B/Nd2Fe14B nanocomposite permanent magnet by Cu addition. Journal of Applied Physics, 1999, 85, 2448-2450. | 1.1 | 31 |
| 836 | Origin of the initial rapid age hardening in an Al-1.7 at.% Mg-1.1 at.% Cu alloy. Philosophical Magazine Letters, 1999, 79, 639-648. | 0.5 | 91 |
| 837 | Impurity oxygen redistribution in a nanocrystallized Zr65Cr15Al10Pd10 metallic glass. Applied Physics Letters, 1999, 74, 812-814. | 1.5 | 44 |
| 838 | Pre-precipitate clusters and precipitation processes in Alâ€“Mgâ€“Si alloys. Acta Materialia, 1999, 47, 1537-1548. | 3.8 | 552 |
| 839 | Atom probe microanalysis and nanoscale microstructures in metallic materials. Acta Materialia, 1999, 47, 3127-3145. | 3.8 | 104 |
| 840 | Microstructural evolution of Fe3B/Nd2Fe14B nanocomposite magnets microalloyed with Cu and Nb. Acta Materialia, 1999, 47, 4641-4651. | 3.8 | 82 |
| 841 | Cu clustering and Si partitioning in the early crystallization stage of an Fe73.5Si13.5B9Nb3Cu1 amorphous alloy. Acta Materialia, 1999, 47, 997-1006. | 3.8 | 354 |
| 842 | Effect of Cu On Microstructural Evolution of Nanocrystalline Soft and Hard Magnetic Materials. Materials Research Society Symposia Proceedings, 1999, 577, 507. | 0.1 | 4 |
| 843 | Atom probe and transmission electron microscopy investigations of heavily drawn pearlitic steel wire. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 717-727. | 1.1 | 23 |
| 844 | Microstructural evolution in a 17-4 PH stainless steel after aging at 400 Â°C. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 345-353. | 1.1 | 214 |
| 845 | Atom probe and transmission electron microscopy investigations of heavily drawn pearlitic steel wire. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 717-727. | 1.1 | 166 |
| 846 | Annealing effect of tunnel-type GMR in Coâ€“Alâ€“O granular thin films. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 21-23. | 1.0 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 847 | Tunnel-MR and spin electronics in metalâ€“nonmetal granular systems. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 179-184. | 1.0 | 64 |
| 848 | The combined effect of molybdenum and nitrogen on the fatigued microstructure of 316 type austenitic stainless steel. Scripta Materialia, 1999, 41, 467-473. | 2.6 | 62 |
| 849 | The chemistry of precipitates in an aged Al-2.1Zn-1.7Mg at.% alloy. Scripta Materialia, 1999, 41, 1031-1038. | 2.6 | 121 |
| 850 | Microstructure change in Co46Al19O35 granular thin films by annealing. Scripta Materialia, 1999, 12, 573-576. | 0.5 | 7 |
| 851 | Cu clustering stage before the crystallization in Feî—¸Siî—¸Bî—¸Nbî—¸Cu amorphous alloys. Scripta Materialia, 1999, 12, 693-696. | 0.5 | 43 |
| 852 | Microstructural Evolution in an Al-1.7 at%Cu Alloy Deformed by Equal-Channel Angular Pressing. Materials Transactions, JIM, 1999, 40, 938-941. | 0.9 | 24 |
| 853 | Effect of Cu Addition on the Microstructure and Magnetic Properties of an Fe3B/Nd2Fe14B Nanocomposite Magnet.. Journal of the Magnetics Society of Japan, 1999, 23, 1101-1104. | 0.4 | 4 |
| 854 | Three Dimensional Atom Probe Analysis of Pre-Precipitate Clustering in an Al-Cu-Mg-Ag Alloy. Scripta Materialia, 1998, 38, 1315-1319. | 2.6 | 61 |
| 855 | Atom probe studies on the early stages of precipitation in Alâ€“Mgâ€“Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 250, 127-132. | 2.6 | 199 |
| 856 | Microstructure of a rapidly solidified Alâ€“4Vâ€“2Fe ultrahigh strength aluminum alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 250, 152-157. | 2.6 | 14 |
| 857 | Evolution of Î© phase in an Alâ€“Cuâ€“Mgâ€“Ag alloyâ€”a three-dimensional atom probe study. Acta Materialia, 1998, 46, 6053-6062. | 3.8 | 249 |
| 858 | Partitioning of Ga and Co atoms in a Fe3B/Nd2Fe14B nanocomposite magnet. Journal of Applied Physics, 1998, 83, 7769-7775. | 1.1 | 64 |
| 859 | Microstructure of FePt/Pt magneticthin films with high perpendicular coercivity. Journal of Applied Physics, 1998, 84, 4403-4409. | 1.1 | 119 |
| 860 | Nanoscale Microstructural Analyses by Atom Probe Field Ion Microscopy. High Temperature Materials and Processes, 1998, 17, 69-86. | 0.6 | 2 |
| 861 | Oxygen Distribution in Zr-Based Metallic Glasses. Materials Research Society Symposia Proceedings, 1998, 554, 3. | 0.1 | 5 |
| 862 | Apfim and HREM Studies of Nanocomposite Soft and Hard Magnetic Materials. Microscopy and Microanalysis, 1998, 4, 108-109. | 0.2 | 0 |
| 863 | Phase Separation and Precipitation in a PH 17-4 Stainless Steel By Prolonged Aging At 400 Â°C. Microscopy and Microanalysis, 1998, 4, 96-97. | 0.2 | 2 |
| 864 | Clustering and Segregation of Ag and Mg Atoms in the Nucleation and Growth Stage of Î© And T1 Precipitates In Al-Cu(-Li) Alloys. Microscopy and Microanalysis, 1998, 4, 116-117. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 865 | Microstructural Characterization of Rapidly Solidified Ultrahigh Strength Aluminum Alloys. Microscopy and Microanalysis, 1998, 4, 98-99. | 0.2 | 0 |
| 866 | Microstructure of Co-Al-O Granular Thin Films. Materia Japan, 1998, 37, 392-392. | 0.1 | 0 |
| 867 | Site occupation preference of Fe in Ni3Al: an atom-probe study. Intermetallics, 1997, 5, 37-43. | 1.8 | 26 |
| 868 | Al partitioning in MA 956, an ODS ferritic stainless steel. Scripta Materialia, 1997, 36, 355-361. | 2.6 | 32 |
| 869 | Cluster hardening in an aged Al-Cu-Mg alloy. Scripta Materialia, 1997, 36, 517-521. | 2.6 | 135 |
| 870 | Microstructures and magnetic properties of Feî—¸Pt permanent magnets. Journal of Magnetism and Magnetic Materials, 1997, 170, 289-297. | 1.0 | 80 |
| 871 | APFIM and TEM studies of drawn pearlitic wire. Scripta Materialia, 1997, 37, 1221-1230. | 2.6 | 113 |
| 872 | APFIM studies on nanocrystallization of amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 498-502. | 2.6 | 34 |
| 873 | Microstructure of Coâ€“Alâ€“O granular thin films. Journal of Applied Physics, 1997, 82, 5646-5652. | 1.1 | 120 |
| 874 | Clustering of Cu prior to the crystallization reaction in an Fe-Zr-B-Cu amorphous alloy. Scripta Materialia, 1996, 34, 1705-1710. | 2.6 | 28 |
| 875 | Chemical compositions of ultrafine lamellae in the water-quenched Ti-48Al alloy. Scripta Materialia, 1996, 35, 495-499. | 2.6 | 27 |
| 876 | Precipitation processes during the early stages of ageing in Alî—¸Cuî—¸Mg alloys. Applied Surface Science, 1996, 94-95, 253-260. | 3.1 | 81 |
| 877 | Phase-Separation, Partitioning and Precipitation in MA956, an ODS Ferritic Stainless Steel. European Physical Journal Special Topics, 1996, 06, C5-223-C5-228. | 0.2 | 1 |
| 878 | Soft magnetic properties of nanocrystalline FeRuGaSi-Hf alloy films and head characteristics for the embedded thin film tape head. Journal of Applied Physics, 1996, 79, 5907. | 1.1 | 1 |
| 879 | Study of giant magnetoresistance behavior in sputter-deposited Crî—¸Fe alloy films. Journal of Magnetism and Magnetic Materials, 1996, 159, 95-102. | 1.0 | 14 |
| 880 | Nanocrystalline structural evolution in Fe90Zr7B3 soft magnetic material. Acta Materialia, 1996, 44, 1497-1510. | 3.8 | 95 |
| 881 | Giant magnetoresistance and microstructure in Crî—¸Fe and Cuî—¸Co heterogeneous alloys. Thin Solid Films, 1996, 275, 106-110. | 0.8 | 20 |
| 882 | Nucleation of precipitates in aged AlCuMg(Ag) alloys with high Cu:Mg ratios. Acta Materialia, 1996, 44, 1883-1898. | 3.8 | 243 |

| # | Article | IF | Citations |
|---|---|---|---|
| 883 | APFIM studies of nanocrystalline microstructural evolution in Fe-Zr-B(-Cu) amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 217-218, 407-413. | 2.6 | 28 |
| 884 | Mesoscopic Structure of Super-High Strength P/M Al-Zn-Mg-Cu Alloys. Materials Science Forum, 1996, 217-222, 1829-1834. | 0.3 | 15 |
| 885 | Partitioning of Si in a Fe87Zr7Si4B2 nanocrystalline soft magnetic alloy. Applied Physics Letters, 1996, 69, 2128-2130. | 1.5 | 17 |
| 886 | Threeâ€dimensional atom probe analysis of Coâ€“Crâ€“Ta thin film. Applied Physics Letters, 1996, 69, 3095-3097. | 1.5 | 8 |
| 887 | Giant magnetoresistance and microstructure in Cr-Fe and Cu-Co heterogeneous alloys. , 1996, , 106-110. | | 0 |
| 888 | Atom Probe Studies of Supercooled Liquids. European Physical Journal Special Topics, 1996, 06, C5-211-C5-216. | 0.2 | 0 |
| 889 | Atom Probe Studies of Nanocrystalline Microstructural Evolution in Some Amorphous Alloys. Materials Transactions, JIM, 1995, 36, 909-917. | 0.9 | 82 |
| 890 | Evolution of Nanoscale Ferromagnetic Particles in Co-Cr and Cr-Fe Alloys Observed by Atom Probe Field Ion Microscopy. Materials Research Society Symposia Proceedings, 1995, 384, 507. | 0.1 | 4 |
| 891 | The performance of the IMR three-dimensional atom probe. Applied Surface Science, 1995, 87-88, 453-459. | 3.1 | 13 |
| 892 | Atom probe studies of nanostructured alloys. Applied Surface Science, 1995, 87-88, 166-178. | 3.1 | 12 |
| 893 | Nucleation and growth of Î¸â€² precipitation in Sn-modified Alî—¸Cu alloys: APFIM/TEM observations. Applied Surface Science, 1995, 87-88, 223-227. | 3.1 | 17 |
| 894 | Erratum to â€œNucleation and growth of Î¸â€² precipitation in Sn-modified Alî—¸Cu alloys: APFIM/TEM observationsâ€•[Appl. Surf. Sci. 87/88 (1995) 223]. Applied Surface Science, 1995, 90, 107. | 3.1 | 0 |
| 895 | The effect of trace additions of sn on precipitation in Al-Cu alloys: An atom probe field ion microscopy study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 2207-2217. | 1.1 | 117 |
| 896 | Magnetoresistance and phase decomposition in Crâ€Fe bulk alloys. Journal of Applied Physics, 1995, 77, 5843-5849. | 1.1 | 23 |
| 897 | Pre-Precipitate Clustering in Aged Aluminium Alloys. Materials Science Forum, 1995, 189-190, 249-254. | 0.3 | 2 |
| 898 | APFIM Studies of Nanocrystallizations of Amorphous Alloys. Materials Research Society Symposia Proceedings, 1995, 400, 203. | 0.1 | 0 |
| 899 | Threeâ€dimensional atom probe analysis of a sputterâ€deposited Coâ€“Cr thin film. Applied Physics Letters, 1995, 66, 1686-1688. | 1.5 | 21 |
| 900 | Solute partitioning in partially crystallized Al-Ni-Ce(-Cu) metallic glasses. Scripta Metallurgica Et Materialia, 1995, 32, 191-196. | 1.0 | 120 |

| # | Article | IF | Citations |
|---|---|---|---|
| 901 | Solid Phase Epitaxy on Si Surfaces Studied by Scanning Tunneling Microscopy. Recent Progress in Atom Probe Field Ion Microscopy and Its Application to the Nanostructure Analysis of Magnetic Thin Films.. Hyomen Kagaku, 1995, 16, 127-134. | 0.0 | 0 |
| 902 | Giant magnetoresistance in sputtered Crâ€Fe heterogeneous alloy films. Journal of Applied Physics, 1994, 76, 6790-6792. | 1.1 | 28 |
| 903 | Compositional inhomogeneities in sputtered Coâ€Cr magnetic thin films studied by atom probe field ion microscopy. Journal of Applied Physics, 1994, 76, 8025-8031. | 1.1 | 20 |
| 904 | Atom probe field ion microscopy study of the partitioning of substitutional elements during tempering of a low-alloy steel martensite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1994, 25, 499-508. | 1.1 | 85 |
| 905 | High resolution electron microscopy of the early decomposition stage of Alî—¸Li alloys. Acta Metallurgica Et Materialia, 1994, 42, 201-211. | 1.9 | 43 |
| 906 | Bain strain relaxation during early stage decomposition of a hyper-eutectoid CuBe alloy. Acta Metallurgica Et Materialia, 1994, 42, 2387-2400. | 1.9 | 3 |
| 907 | Pre-precipitate clustering in an Alî—¸Cuî—¸Mgî—¸Ag alloy. Scripta Metallurgica Et Materialia, 1994, 30, 695-700. | 1.0 | 82 |
| 908 | APFIM studies on martensite tempering of Fe-C-Si-Mn low alloy steel. Applied Surface Science, 1993, 67, 321-327. | 3.1 | 50 |
| 909 | APFIM studies of some aluminum alloys. Applied Surface Science, 1993, 67, 361-367. | 3.1 | 3 |
| 910 | Atom probe analysis of sputtered Coâ€“Cr magnetic thin films. Applied Surface Science, 1993, 67, 386-390. | 3.1 | 4 |
| 911 | Atom probe analysis of a nanocrystalline Fe-C-Ta sputtered soft magnetic thin film. Applied Surface Science, 1993, 67, 391-397. | 3.1 | 13 |
| 912 | Atom probe study of the crystallization process of an Fe73.5Si13.5B9Nb3Cu1 amorphous alloy. Applied Surface Science, 1993, 67, 398-406. | 3.1 | 76 |
| 913 | A method for preparing atom probe specimens for nanoscale compositional analysis of metallic thin films. Applied Surface Science, 1993, 67, 407-412. | 3.1 | 38 |
| 914 | Transformation path dependence of the bain strain relaxation during decomposition of a hypereutectoid CuBe alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1993, 24, 2605-2611. | 1.1 | 3 |
| 915 | Atom probe study of the precipitation process in Alî—¸Cuî—¸Mgî—¸Ag alloys. Acta Metallurgica Et Materialia, 1993, 41, 829-838. | 1.9 | 97 |
| 916 | Environmental embrittlement and grain boundary segregation of boron in Ni3(Si,Ti) and Co3Ti alloys. Scripta Metallurgica Et Materialia, 1993, 29, 1587-1591. | 1.0 | 38 |
| 917 | APFIM studies of microstructural evolution of FeSiBNbCu nanocrystalline soft magnetic material. , 1993, , . | | 0 |
| 918 | APFIM studies of compositional inhomogeneity in sputtered Co-Cr thin films. IEEE Transactions on Magnetics, 1993, 29, 3745-3747. | 1.2 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 919 | APFIM studies of compositional inhomogeneity in sputtered Co-Cr thin films. , 1993, , . | | 0 |
| 920 | Atom probe compositional analysis of Coâ€Cr sputtered magnetic thin films. Applied Physics Letters, 1993, 62, 2504-2506. | 1.5 | 42 |
| 921 | An Atom-Probe Study of the Site Preference of Ge in Ni<sub>3</sub>Al. Defect and Diffusion Forum, 1993, 95-98, 869-874. | 0.4 | 7 |
| 922 | Determination of site occupation probability of Cu in Ni3Al by atom-probe field ion microscopy. Acta Metallurgica Et Materialia, 1992, 40, 419-425. | 1.9 | 30 |
| 923 | Quantitative atom-probe analysis of some aluminum alloys. Surface Science, 1992, 266, 350-357. | 0.8 | 32 |
| 924 | Determination of site preference of Cu and Ge in Ni3Al. Surface Science, 1992, 266, 358-363. | 0.8 | 8 |
| 925 | Microstructures of Fe73.5Si13.5B9Nb3Cu1 nanocrystalline soft magnetic material investigated by APFIM and HRTEM. Surface Science, 1992, 266, 385-390. | 0.8 | 19 |
| 926 | The IMR atom probe. Surface Science, 1992, 266, 506-512. | 0.8 | 40 |
| 927 | The microstructure evolution of a Fe73.5Si13.5B9Nb3Cu1 nanocrystalline soft magnetic material. Acta Metallurgica Et Materialia, 1992, 40, 2137-2147. | 1.9 | 335 |
| 928 | Atom probe study of early stage phase decomposition in an Al-7.8 at.% Li alloy. Acta Metallurgica Et Materialia, 1992, 40, 3027-3034. | 1.9 | 48 |
| 929 | Direct evidence for compositional fluctuation in sputtered Co-Cr thin films. Journal of Magnetism and Magnetic Materials, 1992, 110, L254-L258. | 1.0 | 24 |
| 930 | Atom-probe study of the initial stage of selective oxidation of Ni from the Cu-Ni alloy system. Surface Science, 1991, 245, 132-149. | 0.8 | 15 |
| 931 | Atom-probe analysis of Î© and Î¸â€² phases in an Alî—¸Cuî—¸Mgî—¸Ag alloy. Scripta Metallurgica Et Materialia, 1991, 25, 491-496. | 1.0 | 25 |
| 932 | Atom probe analysis of Fe73.5Si13.5B9Nb3Cu1nanocrystalline soft magnetic material. Applied Physics Letters, 1991, 58, 2180-2182. | 1.5 | 120 |
| 933 | Improvement of the magnetic properties of CoNiCr thin films by annealing. Journal of Applied Physics, 1990, 67, 4704-4706. | 1.1 | 17 |
| 934 | Crystallography of Co/Cr bilayer magnetic thin films. Journal of Applied Physics, 1990, 68, 4734-4740. | 1.1 | 44 |
| 935 | Electron microdiffraction of faulted regions in Coâ€Cr and Coâ€Niâ€Cr thin films. Applied Physics Letters, 1989, 55, 229-231. | 1.5 | 26 |
| 936 | Atom-probe analysis of GP zones in an Al-1.7 At. pct Cu alloy. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1989, 20, 1585-1591. | 1.4 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 937 | Evidence of phosphorous segregation in grain boundaries in electroless-plated Co-P thin film. Journal of Magnetism and Magnetic Materials, 1989, 80, L137-L141. | 1.0 | 21 |
| 938 | An atom-probe field ion microscope study of the initial stages of oxidation of copper and copper-iron alloy. Applied Surface Science, 1989, 35, 327-344. | 3.1 | 12 |
| 939 | A field ion microscopy study of nickel oxide. Surface Science Letters, 1989, 209, L109-L117. | 0.1 | 5 |
| 940 | Oxygen segregation and oxidation on a copper surface. Surface Science, 1989, 213, 90-102. | 0.8 | 15 |
| 941 | Atom-Probe Study of Selective Oxidation of Ni from Cu-Ni Alloy. Materials Research Society Symposia Proceedings, 1989, 139, 283. | 0.1 | 0 |
| 942 | Field Ion Studies of Structure of GP Zones. Annual Review of Materials Research, 1988, 18, 351-380. | 5.5 | 6 |
| 943 | Atom-probe analysis of Î³-iron precipitates in Cu-1.2at%Fe alloys. Scripta Metallurgica, 1988, 22, 881-886. | 1.2 | 6 |
| 944 | Early stages of decomposition of alloys (spinodal or nucleation). Phase Transitions, 1987, 10, 223-255. | 0.6 | 16 |
| 945 | PRECIPITATION PROCESS OF Al-Sc ALLOYS. Journal De Physique Colloque, 1987, 48, C6-337-C6-342. | 0.2 | 5 |
| 946 | ATOM-PROBE ANALYSIS OF G.P. ZONES IN AN Al-1.7 at % Cu ALLOY. Journal De Physique Colloque, 1987, 48, C6-349-C6-354. | 0.2 | 0 |
| 947 | INITIAL STAGES OF OXIDATION OF COPPER AND COPPER-IRON ALLOY. Journal De Physique Colloque, 1987, 48, C6-505-C6-510. | 0.2 | 0 |
| 948 | A study of multi-layer G.P. zones in an A1-1.7 at. %Cu alloy by atom-probe fim. Scripta Metallurgica, 1986, 20, 487-492. | 1.2 | 41 |
| 949 | Evidence of multi-layer GP zones in Al-1Â·7at.%,Cu alloy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1986, 53, 495-504. | 0.8 | 47 |
| 950 | A STUDY OF G.P. ZONES IN Al-Cu ALLOYS BY ATOM-PROBE FIM. Journal De Physique Colloque, 1986, 47, C2-171-C2-177. | 0.2 | 2 |
| 951 | AN ATOM-PROBE ANALYSIS OF Al-Li ALLOYS. Journal De Physique Colloque, 1986, 47, C2-185-C2-190. | 0.2 | 1 |
| 952 | Reaction diffusion in the vanadium-zirconium system. Journal of Materials Science, 1985, 20, 1705-1712. | 1.7 | 2 |
| 953 | G.P. zones in Al-5at%Ag alloy observed by field ion microscope. Scripta Metallurgica, 1984, 18, 945-950. | 1.2 | 17 |
| 954 | L1<sub>0</sub>FePtâ€“C Nanogranular Perpendicular Anisotropy Films with Narrow Size Distribution. Applied Physics Express, 0, 1, 101301. | 1.1 | 76 |

| # | Article | IF | Citations |
|---|---|---|---|
| 955 | Coincidence Doppler broadening study of the pre-precipitation stage of an Al[sbnd]Cu[sbnd]Mg[sbnd]Ag alloy. , 0, . | | 1 |
| 956 | Analysis of current-in-plane giant magnetoresistance using Co2FeAl0.5Si0.5 half-metallic Heusler alloy. Journal Physics D: Applied Physics, 0, , . | 1.3 | 1 |