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List of Publications by Year in Descending Order

927 papers	37,944 citations	103 h-index	146 g-index
994 ext. papers	42,417 ext. citations	4.3 avg, IF	7.61 L-index

#	Paper	IF	Citations
927	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	0.2	
926	Role of homogenization on tensile properties and microstructures in a dilute MgZnCaMn alloy sheet. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 833, 142541	5.3	1
925	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	5.6	1
924	Design and Development of Novel Wrought Magnesium Alloys **2022**, 259-278		
923	Recent Advances in 3D Atom Probe Analysis. *Materia Japan*, **2022**, 61, 72-77	0.1	
922	Effect of microstructure on the electrical conductivity of p-type FeAlSi thermoelectric materials. *Journal of Alloys and Compounds*, **2022**, 903, 163835	5.7	1
921	Unlocking the Strengthening Potential of Magnesium Alloys Using Deformation-Induced Clustering and Precipitation. *Minerals, Metals and Materials Series*, **2022**, 5-7	0.3	
920	Coercivity engineering in Sm(Fe0.8Co0.2)12B0.5 thin films by Si grain boundary diffusion. *Acta Materialia*, **2022**, 117716	8.4	1
919	Transmission electron microscopy image based micromagnetic simulations for optimizing nanostructure of FePt-X heat-assisted magnetic recording media. *Acta Materialia*, **2022**, 227, 117744	8.4	2
918	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	2.8	
917	(Nd,La,Ce)-Fe-B hot-deformed magnets for application of variable-magnetic-force motors. *Acta Materialia*, **2022**, 228, 117747	8.4	0
916	Foreword to the Focus Issue: science and technology of element-strategic permanent magnets.. *Science and Technology of Advanced Materials*, **2022**, 23, 64-65	7.1	0
915	Strengthening by customizing microstructural complexity in nitrogen interstitial CoCrFeMnNi high-entropy alloys. *Journal of Alloys and Compounds*, **2022**, 901, 163483	5.7	0
914	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	5.6	0
913	Development of Co-lean (Sm,Y)(Fe,Co,Ti)12 compounds with large saturation magnetization. *Applied Physics Express*, **2022**, 15, 045505	2.4	2
912	Development of corrosion-resistant Mg-Al-Ca-Mn-Zn alloy sheet with good tensile properties and stretch formability. *Journal of Alloys and Compounds*, **2022**, 164752	5.7	3
911	Magnetic refrigeration material operating at a full temperature range required for hydrogen liquefaction.. *Nature Communications*, **2022**, 13, 1817	17.4	6

910	Microtexture-induced anomalous anisotropic tensile behavior in MgAlZn alloy sheet. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 840, 143002	5.3	0
909	Peculiar behavior of V on the Curie temperature and anisotropy field of SmFe12-xVx compounds. *Acta Materialia*, **2022**, 117928	8.4	0
908	Effect of annealing on microstructure evolution and age-hardening behavior of dilute MgAlCaMn alloy. *Journal of Materials Research and Technology*, **2022**, 18, 1754-1762	5.5	0
907	Machine Learning Assisted Development of Fe2P-type Magnetocaloric Compounds for Cryogenic Applications. *Acta Materialia*, **2022**, 117942	8.4	5
906	Microstructure and atomic order analyses in CoFeCrAl Heusler alloy thin films: Interpretation of spin gapless semiconductor-like transport properties. *Acta Materialia*, **2022**, 117958	8.4	0
905	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/Mo/CoFeB/MgO junctions. *Journal Physics D: Applied Physics*, **2022**, 55, 275003	3	0
904	Fabrication of (Bi2)m(Bi2Te3)n superlattice films by Te desorption from a pristine Bi2Te3 film. *Applied Physics Letters*, **2022**, 120, 173102	3.4	0
903	Atomic-scale investigation of implanted Mg in GaN through ultra-high-pressure annealing. *Journal of Applied Physics*, **2022**, 131, 185701	2.5	0
902	Role of Zn on the rapid age-hardening in Mg-Ca-Zn alloys. *Scripta Materialia*, **2022**, 216, 114735	5.6	1
901	Machine Learning Approach for Evaluation of Nanodefects and Magnetic Anisotropy in FePt Granular Films. *Scripta Materialia*, **2022**, 218, 114797	5.6	0
900	Role of grain boundary segregation on microstructural development in basal-textured Mg-Al-Zn alloy sheet. *Scripta Materialia*, **2022**, 218, 114828	5.6	0
899	Structural insight using anomalous XRD into Mn2CoAl Heusler alloy films grown by magnetron sputtering, IBAS, and MBE techniques. *Acta Materialia*, **2022**, 118063	8.4	
898	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	2.5	0
897	Influence of LRE (Ce, Y, and La) on microstructure and magnetic properties of (Nd0.8LRE0.2)FeB hot-deformed magnets. *AIP Advances*, **2021**, 11, 115118	1.5	1
896	Formation of anomalous twinning and its effect on texture development in a cold-rolled Mg-Zn-Ca alloy sheet. *Materials Characterization*, **2021**, 181, 111507	3.9	4
895	Corrosion-resistant Cu-Fe-based immiscible medium-entropy alloy with tri-layer passivation. *Corrosion Science*, **2021**, 193, 109888	6.8	0
894	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	0.5	2
893	Impact of oxygen on band structure at the Ni/GaN interface revealed by hard X-ray photoelectron spectroscopy. *Applied Physics Letters*, **2021**, 118, 121603	3.4	2

892	Positive linear magnetoresistance effect in disordered L21B-type Mn2CoAl epitaxial films. *Physical Review B*, **2021**, 103,	3.3	5
891	Prospects for the development of SmFe12-based permanent magnets with a ThMn12-type phase. *Scripta Materialia*, **2021**, 194, 113686	5.6	10
890	Intrinsic hard magnetic properties of Sm(Fe,Co)12□Tix compound with ThMn12 structure. *Journal of Alloys and Compounds*, **2021**, 861, 158477	5.7	5
889	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,	3.3	2
888	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	3	3
887	Magnetic properties and microstructure of Sm5Fe17-based composite magnets. *Acta Materialia*, **2021**, 212, 116912	8.4	1
886	Most frequently asked questions about the coercivity of Nd-Fe-B permanent magnets. *Science and Technology of Advanced Materials*, **2021**, 22, 386-403	7.1	8
885	Phase relations and extrinsic magnetic properties of Sm(Fe,Co)□Ti(□,Ga)-based alloys for ThMn12-type permanent magnets. *Journal of Magnetism and Magnetic Materials*, **2021**, 529, 167866	2.8	4
884	Role of V on the coercivity of SmFe12-based melt-spun ribbons revealed by machine learning and microstructure characterizations. *Scripta Materialia*, **2021**, 200, 113925	5.6	8
883	Heating rate dependence of coercivity and microstructure of Fe□□□Cu nanocrystalline soft magnetic materials. *Journal of Alloys and Compounds*, **2021**, 859, 157832	5.7	4
882	X-ray diffraction and in situ pressurization of dentine apatite reveals nanocrystal modulus stiffening upon carbonate removal. *Acta Biomaterialia*, **2021**, 120, 91-103	10.8	3
881	Intrinsic magnetic properties of (Sm,Gd)Fe12-based compounds with minimized addition of Ti. *Journal of Alloys and Compounds*, **2021**, 855, 157491	5.7	7
880	Improved coercivity and squareness in bulk hot-deformed Nd□□□B magnets by two-step eutectic grain boundary diffusion process. *Acta Materialia*, **2021**, 203, 116479	8.4	18
879	Quantitative analysis of sulfur segregation at the oxide/substrate interface in Ni-base single crystal superalloy. *Scripta Materialia*, **2021**, 194, 113616	5.6	3
878	SmFe12-based hard magnetic alloys prepared by reduction-diffusion process. *Journal of Alloys and Compounds*, **2021**, 861, 157993	5.7	5
877	(Pr0.75Ce0.25)-Fe-B hot-deformed magnets for cryogenic applications. *Scripta Materialia*, **2021**, 194, 113648	5.6	3
876	Achieving an ultra-high strength and moderate ductility in Mg□□□Zn□r alloy via a decreased-temperature multi-directional forging. *Materials Characterization*, **2021**, 171, 110804	3.9	10
875	Room-temperature stretch formability, tensile properties, and microstructures of precipitation hardenable Mg□Zn-0.2Ca (mass%) alloy sheets micro-alloyed with Ce or Y. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 804, 140563	5.3	6

874	Relationship between the microstructure, local magnetism and coercivity in Ga-containing Nd-Fe-B sintered magnets. *Acta Materialia*, **2021**, 205, 116517	8.4	6
873	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	2.5	3
872	Improving room-temperature stretch formability of a high-alloyed MgAlCaMn alloy sheet by a high-temperature solution-treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 801, 140399	5.3	13
871	Exceeding 400% tunnel magnetoresistance at room temperature in epitaxial Fe/MgO/Fe(001) spin-valve-type magnetic tunnel junctions. *Applied Physics Letters*, **2021**, 118, 042411	3.4	5
870	Origin of coercivity in an anisotropic Sm(Fe,Ti,V)12-based sintered magnet. *Acta Materialia*, **2021**, 217, 117161	8.4	4
869	First-principles disordered local-moment study on temperature dependence of spin polarization in Co2Fe(Ga0.5Ge0.5) Heusler alloy. *Acta Materialia*, **2021**, 218, 117218	8.4	1
868	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	2.8	3
867	Reduction of hysteresis in (La1-Ce) (Mn Fe11.4-)Si1.6 magnetocaloric compounds for cryogenic magnetic refrigeration. *Acta Materialia*, **2021**, 220, 117286	8.4	6
866	Significant coercivity enhancement of hot-deformed bulk magnets by two-step diffusion process using a minimal amount of Dy. *Scripta Materialia*, **2021**, 205, 114207	5.6	3
865	Tuning transition temperature of magnetocaloric Mn1.8Fe0.2(P0.59Si0.41) alloys for cryogenic magnetic refrigeration. *Scripta Materialia*, **2020**, 183, 127-132	5.6	7
864	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	3.6	3
863	Achievement of high coercivity in Sm(Fe0.8Co0.2)12 anisotropic magnetic thin film by boron doping. *Acta Materialia*, **2020**, 194, 337-342	8.4	31
862	Simultaneous achievement of high thermal conductivity, high strength and formability in Mg-Zn-Ca-Zr sheet alloy. *Materials Research Letters*, **2020**, 8, 335-340	7.4	15
861	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	8.4	7
860	Thermally-stable high coercivity Ce-substituted hot-deformed magnets with 20% Nd reduction. *Acta Materialia*, **2020**, 190, 8-15	8.4	21
859	Enhanced strength by precipitate modification in wrought MgAlCa alloy with trace Mn addition. *Journal of Alloys and Compounds*, **2020**, 836, 154689	5.7	12
858	The spin Hall effect of Bi-Sb alloys driven by thermally excited Dirac-like electrons. *Science Advances* , **2020**, 6, eaay2324	14.3	36
857	Mg diffusion and activation along threading dislocations in GaN. *Applied Physics Letters*, **2020**, 116, 242103	3.4	7

856	Characterizations of GaN nanowires and GaInN/GaN multi-quantum shells grown by MOVPE. *Japanese Journal of Applied Physics*, **2020**, 59, SGGE05	1.4	5
855	Development of high-performance Mg□Zn□Ca□Mn alloy via an extrusion process at relatively low temperature. *Journal of Alloys and Compounds*, **2020**, 825, 153942	5.7	14
854	Angular dependence and thermal stability of coercivity of Nd-rich Ga-doped Nd□Fe□B sintered magnet. *Acta Materialia*, **2020**, 187, 66-72	8.4	12
853	Anisotropy-induced spin reorientation in chemically modulated amorphous ferrimagnetic films. *Physical Review Materials*, **2020**, 4,	3.2	7
852	Effects of the atomic order on the half-metallic electronic structure in the Co2Fe(Ga0.5Ge0.5) Heusler alloy thin film. *Physical Review Materials*, **2020**, 4,	3.2	5
851	Effects of Zn Additions on the Room Temperature Formability and Strength in Mg□1.2Al□0.5Ca□0.4Mn Alloy Sheets. *Minerals, Metals and Materials Series*, **2020**, 105-111	0.3	
850	Tunable electron transport with intergranular separation in FePt-C nanogranular films. *Materials Research Express*, **2020**, 7, 046405	1.7	
849	New Mg□Al based alloy sheet with good room-temperature stretch formability and tensile properties. *Scripta Materialia*, **2020**, 180, 16-22	5.6	20
848	Comparative study of spin-dependent transport in Co2FeAl/MgAl2O4/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	3	3
847	Thermal decomposition of ThMn12-type phase and its optimum stabilizing elements in SmFe12-based alloys. *Journal of Alloys and Compounds*, **2020**, 813, 152224	5.7	29
846	Control of grain density in FePt-C granular thin films during initial growth. *Journal of Magnetism and Magnetic Materials*, **2020**, 500, 166418	2.8	12
845	Magnetic flux density measurements from grain boundary phase in 0.1 ́at% Ga-doped Nd□Fe□B sintered magnet. *Scripta Materialia*, **2020**, 178, 533-538	5.6	7
844	Formation mechanism of Tb-rich shell in grain boundary diffusion processed Nd□Fe□B sintered magnets. *Scripta Materialia*, **2020**, 178, 433-437	5.6	33
843	An alternative approach to the measurement of anisotropy field □ single grain extraction. *Journal of Magnetism and Magnetic Materials*, **2020**, 494, 165747	2.8	8
842	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	8.4	16
841	Improving tensile properties of a room-temperature formable and heat-treatable Mg□Zn-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	5.3	11
840	On the temperature-dependent coercivities of anisotropic Nd-Fe-B magnet. *Acta Materialia*, **2020**, 199, 288-296	8.4	11
839	Effect of Mg content on age-hardening response, tensile properties, and microstructures of a T5-treated thixo-cast hypoeutectic Al□Si alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 798, 140089	5.3	8

838	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	8.4	6
837	Hierarchical microstructure strengthening in a single crystal high entropy superalloy. *Scientific Reports*, **2020**, 10, 12163	4.9	11
836	Regulation of oxygen reduction reaction by the magnetic effect of L10-PtFe alloy. *Applied Catalysis B: Environmental*, **2020**, 278, 119332	21.8	16
835	Quasi-in-situ observing the rare earth texture evolution in an extruded Mg-Zn-Gd alloy with bimodal microstructure. *Journal of Magnesium and Alloys*, **2020**,	8.8	10
834	Tuning magnetocaloric effect of Ho1-xGdxNi2 and HoNi2-yCoy alloys around hydrogen liquefaction temperature. *Scripta Materialia*, **2020**, 188, 302-306	5.6	9
833	Role of Zn on the room temperature formability and strength in Mg□Al□Ca□Mn sheet alloys. *Journal of Alloys and Compounds*, **2020**, 847, 156347	5.7	19
832	Effect of recovery and recrystallization on microstructure and magnetic properties of Fe-0.4P rolled sheets. *Materialia*, **2020**, 13, 100863	3.2	
831	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	5.6	2
830	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**,	8.8	12
829	Controlling oxygen distribution of an MgAl2O4 barrier for magnetic tunnel junctions by two-step process. *Applied Physics Letters*, **2020**, 117, 122409	3.4	2
828	Fabrication of a novel magnetic topological heterostructure and temperature evolution of its massive Dirac cone. *Nature Communications*, **2020**, 11, 4821	17.4	19
827	Influence of implanted Mg concentration on defects and Mg distribution in GaN. *Journal of Applied Physics*, **2020**, 128, 065701	2.5	6
826	Magnetic anisotropy constants of ThMn12-type Sm(Fe1□Cox)12 compounds and their temperature dependence. *Journal of Magnetism and Magnetic Materials*, **2020**, 497, 165965	2.8	28
825	Influence of process conditions on microstructures and mechanical properties of T5-treated 357 aluminum alloys. *Journal of Alloys and Compounds*, **2020**, 834, 155133	5.7	7
824	Origins of high strength and ductility combination in a Guinier-Preston zone containing Mg-Al-Ca-Mn alloy. *Scripta Materialia*, **2019**, 163, 121-124	5.6	18
823	Unexpected influence of prismatic plate-shaped precipitates on strengths and yield anisotropy in an extruded Mg-0.3Ca-1.0In-0.1Al-0.2Mn (at.%) alloy. *Scripta Materialia*, **2019**, 169, 70-75	5.6	14
822	Role of Co on the magnetic properties of Ce-substituted Nd-Fe-B hot-deformed magnets. *Acta Materialia*, **2019**, 175, 1-10	8.4	16
821	Enhancing strength and creep resistance of Mg□Gd□Y□Zn□Zr alloy by substituting Mn for Zr. *Journal of Magnesium and Alloys*, **2019**, 7, 388-399	8.8	42

820	Development of high coercivity anisotropic Nd-Fe-B/Fe nanocomposite powder using hydrogenation disproportionation desorption recombination process. *Acta Materialia*, **2019**, 175, 276-285	8.4	12
819	Over 100% magnetoresistance ratio at room temperature in magnetic tunnel junctions with CuGaSe2 spacer layer. *Applied Physics Letters*, **2019**, 114, 172402	3.4	5
818	Determining the strength of GP zones in Mg alloy AXM10304, both parallel and perpendicular to the zone. *Acta Materialia*, **2019**, 171, 231-239	8.4	11
817	Microstructure and mechanical properties of extruded Mg□d□□n alloy with Mn or Zr addition. *Journal of Materials Science*, **2019**, 54, 10473-10488	4.3	12
816	Towards Oxide Electronics: a Roadmap. *Applied Surface Science*, **2019**, 482, 1-93	6.7	160
815	Microstructure and coercivity of grain boundary diffusion processed Dy-free and Dy-containing NdFeB sintered magnets. *Acta Materialia*, **2019**, 172, 139-149	8.4	41
814	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, 172403	3.4	9
813	Coercivity enhancement of selective laser sintered NdFeB magnets by grain boundary infiltration. *Acta Materialia*, **2019**, 172, 66-71	8.4	29
812	Interface resonance in Fe/Pt/MgO multilayer structure with large voltage controlled magnetic anisotropy change. *Applied Physics Letters*, **2019**, 114, 082405	3.4	5
811	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	5.7	31
810	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	2.4	1
809	Ultrahigh strength Mg-Al-Ca-Mn extrusion alloys with various aluminum contents. *Journal of Alloys and Compounds*, **2019**, 792, 130-141	5.7	40
808	Emergence of coercivity in Sm(Fe0.8Co0.2)12 thin films via eutectic alloy grain boundary infiltration. *Scripta Materialia*, **2019**, 164, 140-144	5.6	24
807	Temperature dependent magnetization reversal process of a Ga-doped Nd-Fe-B sintered magnet based on first-order reversal curve analysis. *Acta Materialia*, **2019**, 178, 90-98	8.4	12
806	Change of Deformation Mechanisms Leading to High Strength and Large Ductility in Mg-Zn-Zr-Ca Alloy with Fully Recrystallized Ultrafine Grained Microstructures. *Scientific Reports*, **2019**, 9, 11702	4.9	27
805	Development of age-hardenable wrought magnesium alloy. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2019**, 69, 217-222	0.3	
804	The effect of Zr substitution on saturation magnetization in (Sm1-xZrx)(Fe0.8Co0.2)12 compound with the ThMn12 structure. *Acta Materialia*, **2019**, 178, 114-121	8.4	23
803	Magnetic in-plane components of FePt nanogranular film on polycrystalline MgO underlayer for heat-assisted magnetic recording media. *Acta Materialia*, **2019**, 177, 1-8	8.4	6

802	Influence of Ti addition on microstructure and magnetic properties of a heavy-rare-earth-free Nd-Fe-B sintered magnet. *Journal of Alloys and Compounds*, **2019**, 806, 1267-1275	5.7	5
801	Cathodoluminescence and scanning transmission electron microscopy study of InGaN/GaN quantum wells in core-shell GaN nanowires. *Applied Physics Express*, **2019**, 12, 085003	2.4	7
800	Microstructure, magnetic and transport properties of a Mn2CoAl Heusler compound. *Acta Materialia*, **2019**, 176, 33-42	8.4	17
799	Anisotropic, single-crystalline SmFe12-based microparticles with high roundness fabricated by jet-milling. *Journal of Alloys and Compounds*, **2019**, 804, 155-162	5.7	30
798	Quantitative identification of constituent phases in a Nd-Fe-B-Cu sintered magnet and temperature dependent change of electron density of Nd2Fe14B studied by synchrotron X-ray diffraction. *Acta Materialia*, **2019**, 181, 530-536	8.4	9
797	Influence of photoexcited carriers on compositional measurements by APT: AlGaN alloy case study. *Japanese Journal of Applied Physics*, **2019**, 58, 096505	1.4	1
796	Element-specific density of states of Co2MnGe revealed by resonant photoelectron spectroscopy. *Physical Review B*, **2019**, 100,	3.3	1
795	Impact of oxygen interdiffusion on spin-to-charge conversion at nonmagnetic metal/Bi oxide interfaces. *Physical Review Materials*, **2019**, 3,	3.2	2
794	Band match enhanced current-in-plane giant magnetoresistance in epitaxial Co50Fe50/Cu multilayers with metastable bcc-Cu spacer. *APL Materials*, **2019**, 7, 111106	5.7	11
793	Detection of elemental magnetization reversal events in a micro-patterned Nd-Fe-B hot-deformed magnet. *AIP Advances*, **2019**, 9, 125052	1.5	6
792	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, 173904	2.5	3
791	Experimental verification of the origin of positive linear magnetoresistance in CoFe(V1−xMnx)Si Heusler alloys. *Physical Review B*, **2019**, 100,	3.3	7
790	Observation of anomalous Ettingshausen effect and large transverse thermoelectric conductivity in permanent magnets. *Applied Physics Letters*, **2019**, 115, 222403	3.4	22
789	Atomic-scale quantitative analysis of implanted Mg in annealed GaN layers on free-standing GaN substrates. *Journal of Applied Physics*, **2019**, 126, 235704	2.5	9
788	Magnetization reversal process of anisotropic hot-deformed magnets observed by magneto-optical Kerr effect microscopy. *Journal of Alloys and Compounds*, **2019**, 771, 51-59	5.7	12
787	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	2.8	7
786	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	5.7	26
785	Impact of carbon segregant on microstructure and magnetic properties of FePt-C nanogranular films on MgO (001) substrate. *Acta Materialia*, **2019**, 166, 413-423	8.4	15

784	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	5.7	36
783	Development of ultra-fine grain sized SmFe12-based powders using hydrogenation disproportionation desorption recombination process. *Acta Materialia*, **2019**, 165, 373-380	8.4	23
782	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	8.4	15
781	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	5.6	16
780	Development of Heat-Treatable High-Strength Mg□Zn□Ca□Zr Sheet Alloy with Excellent Room Temperature Formability. *Minerals, Metals and Materials Series*, **2018**, 361-364	0.3	2
779	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	8.4	79
778	Magnetization measurements for grain boundary phases in Ga-doped Nd-Fe-B sintered magnet. *Journal of Alloys and Compounds*, **2018**, 752, 220-230	5.7	22
777	Suppression of non-oriented grains in Nd-Fe-B hot-deformed magnets by Nb doping. *Scripta Materialia*, **2018**, 147, 108-113	5.6	14
776	Read sensor technology for ultrahigh density magnetic recording. *MRS Bulletin*, **2018**, 43, 106-111	3.2	14
775	Heat-assisted magnetic recording media materials. *MRS Bulletin*, **2018**, 43, 93-99	3.2	21
774	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	
773	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	2.3	77
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