

Hidefumi Kishimoto

List of Publications by Year in descending order

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19
papers

490
citations

840776

11
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

253
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper-free nanocrystalline soft magnetic materials with high saturation magnetization comparable to that of Si steel. Applied Physics Letters, 2017, 110, .	3.3	81
2	Effect of heating rate during primary crystallization on soft magnetic properties of melt-spun Fe-B alloys. Scripta Materialia, 2017, 132, 68-72.	5.2	75
3	Soft magnetic properties of rapidly-annealed nanocrystalline Fe-Nb-B-(Cu) alloys. Journal of Alloys and Compounds, 2017, 723, 408-417.	5.5	53
4	Nano-crystallization of amorphous alloys by ultra-rapid annealing: An effective approach to magnetic softening. Journal of Alloys and Compounds, 2018, 735, 613-618.	5.5	45
5	Coercivity enhancement in Ce-Fe-B based magnets by core-shell grain structuring. AIP Advances, 2016, 6, .	1.3	42
6	Nanocrystalline soft magnetic materials from binary alloy precursors with high saturation magnetization. AIP Advances, 2019, 9, .	1.3	36
7	Effect of Si on the field-induced anisotropy in Fe-rich nanocrystalline soft magnetic alloys. Journal of Alloys and Compounds, 2017, 695, 3156-3162.	5.5	33
8	Core loss of ultra-rapidly annealed Fe-rich nanocrystalline soft magnetic alloys. Journal of Magnetism and Magnetic Materials, 2019, 476, 142-148.	2.3	33
9	Nano-crystallisation and magnetic softening in Fe ϵ -B binary alloys induced by ultra-rapid heating. Journal Physics D: Applied Physics, 2018, 51, 415001.	2.8	21
10	Dramatic grain refinement and magnetic softening induced by Ni addition in Fe B based nanocrystalline soft magnetic alloys. Scripta Materialia, 2020, 181, 82-85.	5.2	21
11	Prediction of density in amorphous and nanocrystalline soft magnetic alloys: A data mining approach. Journal of Alloys and Compounds, 2021, 859, 157845.	5.5	16
12	Nanocrystalline (Fe,Co,Ni) ϵ B ϵ 14 soft magnetic alloys prepared by ultra-rapid annealing. Journal of Alloys and Compounds, 2022, 902, 162544.	5.5	8
13	Induced magnetic anisotropy in Si-free nanocrystalline soft magnetic materials: A transmission x-ray diffraction study. Journal of Applied Physics, 2015, 117, 17A333.	2.5	7
14	Microstructural and magnetic properties of Nd-Fe-B alloys processed by equal-channel angular pressing. Journal of Applied Physics, 2015, 117, .	2.5	7
15	Effect of latent heat during primary crystallization on the nanostructural formation process in nanocrystalline soft magnetic materials. AIP Advances, 2020, 10, .	1.3	4
16	Nanostructural formation kinetics in an $\text{Fe}_{86}\text{B}_{14}$ soft magnetic alloy investigated by <i>in situ</i> transport measurements under isothermal conditions. Physical Review Materials, 2020, 4, .	2.4	3
17	Effect of Processing Parameters on the Magnetic Properties and Macrotexture of a Nd _{13.5} Fe _{73.8} Co _{6.7} B _{5.6} Ga _{0.4} Alloy Processed by Equal Channel Angular Pressing With Back Pressure. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	2
18	Low temperature texture development in Nd ₂ Fe ₁₄ B/ ϵ -Fe nanocomposite magnets via equal channel angular pressing. AIP Advances, 2018, 8, .	1.3	2

#	ARTICLE	IF	CITATIONS
19	The effect of Cu-based core-sheath configurations on the processing of Nd-Fe-B-based permanent magnets via equal-channel angular pressing. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012043.	0.6	1