Teruo Bitoh

List of Publications by Year
in descending order

53 papers	1,135 citations	331670 21 h-index	414414 32 g-index
54 all docs	54 docs citations	54 times ranked	741 citing authors

#	Article	IF	Citations
1	Origin of Low Coercivity of Fe-(Al, Ga)-(P, C, B, Si, Ge) Bulk Glassy Alloys. Materials Transactions, 2003, 44, 2020-2024.	1.2	92
2	Field-Cooled and Zero-Field-Cooled Magnetization of Superparamagnetic Fine Particles in Cu97Co3Alloy: Comparison with Spin-Glass Au96Fe4Alloy. Journal of the Physical Society of Japan, 1995, 64, 1305-1310.	1.6	77
3	Comparative study of linear and nonlinear susceptibilities of fine-particle and spin-glass systems: quantitative analysis based on the superparamagnetic blocking model. Journal of Magnetism and Magnetic Materials, 1996, 154, 59-65.	2.3	75
4	Microstructure and properties of nanocrystalline Feâ€“Zrâ€“Nbâ€“B soft magnetic alloys with low magnetostriction. Acta Materialia, 2001, 49, 4069-4077.	7.9	61
5	Nb-Poor Feâ€“Nbâ€“B nanocrystalline soft magnetic alloys with small amount of P and Cu prepared by melt-spinning in air. Scripta Materialia, 2003, 48, 869-874.	5.2	55
6	Random Anisotropy Model for Nanocrystalline Soft Magnetic Alloys with Grain-Size Distribution. Materials Transactions, 2003, 44, 2011-2019.	1.2	47
7	Large bulk soft magnetic [(Fe0.5Co0.5)0.75B0.20Si0.05]96Nb4 glassy alloy prepared by B2O3 flux melting and water quenching. Applied Physics Letters, 2006, 88, 182510.	3.3	43
8	Nanocrystalline Feâ€“Mâ€“Bâ€“Cu (M=Zr,Nb) alloys with improved soft magnetic properties. Journal of Applied Physics, 1997, 81, 2736-2739.	2.5	38
9	Magnetization Process and Coercivity of Fe-(Al, Ga)-(P, C, B, Si) Soft Magnetic Glassy Alloys. Materials Transactions, 2004, 45, 1219-1227.	1.2	35
10	Linear and Nonlinear Susceptibilities inCu97Co3Alloy for Ferromagnetic Fine Particles in Metallic Matrix: Comparison with Spin GlassAu96Fe4Alloy. Journal of the Physical Society of Japan, 1993, 62, 2583-2586.	1.6	34
11	The effect of grain-size distribution on coercivity in nanocrystalline soft magnetic alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1445-1446.	2.3	33
12	Superconductivity in Thiospinel CuRh2S4. Journal of the Physical Society of Japan, 1992, 61, 3011-3012.	1.6	32
13	Linear and Nonlinear Susceptibilities of Ferromagnetic Fine Particles in Cu97Co3Alloy. Journal of the Physical Society of Japan, 1995, 64, 1311-1319.	1.6	31
14	Compositional dependence of the soft magnetic properties of the nanocrystalline Feâ€“Zrâ€“Nbâ€“B alloys with high magnetic flux density. Journal of Applied Physics, 2000, 87, 7100-7102.	2.5	29
15	Critical Behavior of Linear and Nonlinear Susceptibilities near Curie Temperature in Au82Fe18Alloy. Journal of the Physical Society of Japan, 1993, 62, 2837-2844.	1.6	28
16	Improvement of soft magnetic properties by simultaneous addition of P and Cu for nanocrystalline FeNbB alloys. Journal of Applied Physics, 2007, 101, 09N117.	2.5	28
17	Ternary Fe-B-C and quaternary Fe-B-C-Si amorphous alloys with glass transition and high magnetization. Journal of Alloys and Compounds, 2017, 707, 82-86.	5.5	28
18	High coercivity of melt-spun (Fe0.55Pt0.45)78Zr2â€“4B18â€“20 nanocrystalline alloys with L10 structure. Journal of Applied Physics, 2004, 95, 7498-7500.	2.5	27

#	ARTICLE	IF	CITATIONS
19	Applications of nanocrystalline soft magnetic Fe-M-B (M = Zr, Nb) alloys. Scripta Materialia, 1997, 8, 987-995.	0.5	24
20	Magnetic properties of zero-magnetostrictive nanocrystalline Feâ€“Zrâ€“Nbâ€“B soft magnetic alloys with high magnetic induction. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 288-292.	2.3	24
21	Proposal of a tilted helical milling technique for high-quality hole drilling of CFRP: analysis of hole surface finish. International Journal of Advanced Manufacturing Technology, 2019, 101, 1041-1049.	3.0	24
22	Temperature dependence of the fatigue and mechanical properties of lead zirconate titanate piezoelectric ceramics. International Journal of Fatigue, 2009, 31, 1254-1261.	5.7	22
23	As-quenched and nanocrystallized structure for Nb-poor Feâ€“Nbâ€“Bâ€“Pâ€“Cu soft magnetic alloys melt spun in air. Journal of Applied Physics, 2003, 93, 6522-6524.	2.5	21
24	Effect of Ti, V, Cr, and Mn additions on the magnetic properties of a nanocrystalline soft magnetic Feâ€“Zrâ€“B alloy with high magnetic flux density. Journal of Applied Physics, 1999, 85, 5127-5129.	2.5	20
25	Nonlinear Susceptibility of Ni near the Curie Temperature. Journal of the Physical Society of Japan, 1995, 64, 951-959.	1.6	17
26	Application of nanocrystalline soft magnetic Feâ€“Mâ€“B (M=Zr, Nb) alloys to choke coils. Journal of Applied Physics, 1998, 83, 6332-6334.	2.5	17
27	Investigation on the polishing of aspheric surfaces with a doughnut-shaped magnetic compound fluid (MCF) tool using an industrial robot. Precision Engineering, 2020, 61, 182-193.	3.4	17
28	Magnetic Properties and Magnetic Phase Diagram of bcc Crâ€“Feâ€“Mn Alloys. Journal of the Physical Society of Japan, 1996, 65, 3289-3293.	1.6	16
29	Superconductivity in Selenospinel CuRh2Se4. Journal of the Physical Society of Japan, 1993, 62, 374-375.	1.6	15
30	The relationship between the crystallization process and the soft magnetic properties of nanocrystalline Feâ€“Mâ€“Bâ€“Cu (M=Zr, Nb) alloy. Journal of Applied Physics, 1997, 81, 4634-4636.	2.5	14
31	Effect of Yttrium Addition on Glass-Forming Ability and Magnetic Properties of Feâ€“Coâ€“Bâ€“Siâ€“Nb Bulk Metallic Glass. Metals, 2015, 5, 1127-1135.	2.3	12
32	Direct Synthesis of <i>L</i>1₀(Fe_{0.55}Pt_{0.45})_{77—78}Zr_{2—5}B_{17—20} Nanocrystalline Alloys with High Coercivity by Melt-Spinning. Materials Transactions, 2004, 45, 2909-2915.	1.2	10
33	Microstructure and hard magnetic properties of directly synthesized L10(Fe1âˆ’xPtx)78Zr4B18 nanocrystalline alloys by melt spinning. Journal of Applied Physics, 2005, 97, 10H307.	2.5	10
34	Magnetic microstructure of Fe84Nb7B9 alloys observed by electron holography. Journal of Applied Physics, 2003, 93, 7462-7464.	2.5	9
35	Effect of the components of Magnetic Compound Fluid (MCF) slurry on polishing characteristics in aspheric-surface finishing with the doughnut-shaped MCF tool. Precision Engineering, 2020, 65, 216-229.	3.4	9
36	Soft Magnetic Properties of Ring-Shaped Fe-Co-B-Si-Nb Bulk Metallic Glasses. Journal of Magnetics, 2011, 16, 431-434.	0.4	9

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37	Direct synthesis of L10-(Fe,Co)Pt nanocrystallites from (Fe,Co)â€"Ptâ€"Zrâ€"B liquid phase by melt-spinning. Journal of Non-Crystalline Solids, 2007, 353, 3655-3660.	3.1	8
38	Domain structures of nanocrystalline Fe90Zr7B3alloy studied by Lorentz microscopy. Science and Technology of Advanced Materials, 2003, 4, 353-359.	6.1	7
39	Fundamental Investigation on the Polishing Aspheric Elements with Doughnut-Shaped MCF Slurry. Key Engineering Materials, 0, 792, 179-184.	0.4	6
40	Melting temperature and orderâ€"disorder transformation of melt-spun (Fe,Pt)â€"Zrâ€"B nanocrystalline alloys. Scripta Materialia, 2005, 53, 429-434.	5.2	5
41	Magnetic properties and microstructure of FePtâ€"Mâ€"B(MZr,Nb,La) films. Journal of Magnetism and Magnetic Materials, 2007, 310, 2527-2528.	2.3	5
42	Compositional dependence of soft magnetic properties of nanocrystalline Feâ€"Nbâ€"Bâ€"Pâ€"Cu alloy tapes produced in air. Journal of Magnetism and Magnetic Materials, 2007, 310, 2469-2470.	2.3	4
43	Development of Ternary Fe-B-C and Quaternary Fe-B-C-Si Amorphous Alloys with High Glass-Forming Ability and High Magnetization. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 389-394.	0.2	3
44	Formation of Large Bulk [(Fe_{0.5}Co_{0.5})_{0.75}B_{0.20}Si_{0.05}]₉₆Nb₄ Glassy Alloy by Flux Melting and Water Quenching. Materials Research Society Symposia Proceedings, 2005, 903, 1.	0.1	2
45	Hard magnetic properties of melt-spun (Fe0.55Pt0.45)-(Nb, Ti)-B nanocrystalline alloys with L10 structure. Journal of Magnetism and Magnetic Materials, 2007, 310, e855-e857.	2.3	2
46	Glass-Forming Ability and Magnetic Properties of <inline-formula> <tex-math notation="TeX">$({m) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Y}_{{{m y}}}~({{x}}={15}, 17)$ </tex-math></inline-formula> Amorphous Alloys. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
47	Synthesis of Fe-Co-Ni-(B, Si, C) Ferromagnetic High Entropy Amorphous Alloys and Their Thermal and Magnetic Properties. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 401-406.	0.2	2
48	Thermal and Magnetic Properties of Ternary Fe-B-C and Quaternary Fe-B-C-Si Alloys with High Glass-Forming Ability and High Magnetization. Materials Science Forum, 0, 1016, 274-279.	0.3	2
49	Magnetostriction and Coercivity of Soft Magnetic Fe-(Al, Ga)-(P, C, B, Si) Bulk Glassy Alloys. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	1
50	Effect of B₂O₃ Fluxing on Glass-Forming Ability and Soft Magnetic Properties of Fe(-Co)-B-Si-Nb Bulk Metallic Glasses. Materials Science Forum, 0, 783-786, 1895-1900.	0.3	1
51	Glass-Forming Ability and Magnetization of (Fe, Co)-B-Si-(Nb, RE) (RE = Nd, Sm, Dy) Amorphous Alloys. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 395-400.	0.2	1
52	Experimental Investigation on the Tilt Helical Milling of Carbon Fiber Reinforced Plastics (CFRP). Key Engineering Materials, 0, 792, 173-178.	0.4	0
53	1255 Temperature Dependence of the Mechanical Strengths of Lead Zirconate Titanate Piezoelectric Ceramics. The Proceedings of the JSME Annual Meeting, 2008, 2008.1, 185-186.	0.0	0