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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	Glass-Forming Ability and Magnetic Properties of <inline-formula> <tex-math notation="TeX">$({m) Tj ETQq1 1 0.784314 rgBT /Overlo Y}_{{{m y}}}~({{x}}={15}, 17)$ </tex-math></inline-formula> Amorphous Alloys. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
10	Soft Magnetic Properties of Ring-Shaped Fe-Co-B-Si-Nb Bulk Metallic Glasses. Journal of Magnetics, 2011, 16, 431-434.	0.4	9
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	Domain structures of nanocrystalline Fe90Zr7B3alloy studied by Lorentz microscopy. Science and Technology of Advanced Materials, 2003, 4, 353-359.	6.1	7
28	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
29	Magnetic microstructure of Fe84Nb7B9 alloys observed by electron holography. Journal of Applied Physics, 2003, 93, 7462-7464.	2.5	9
30	Random Anisotropy Model for Nanocrystalline Soft Magnetic Alloys with Grain-Size Distribution. Materials Transactions, 2003, 44, 2011-2019.	1.2	47
31	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
32	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
33	Microstructure and properties of nanocrystalline Feâ€“Zrâ€“Nbâ€“B soft magnetic alloys with low magnetostriction. Acta Materialia, 2001, 49, 4069-4077.	7.9	61
34	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
35	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
36	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

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37	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
38	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
39	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
40	Applications of nanocrystalline soft magnetic Fe-M-B (M = Zr, Nb) alloys. Scripta Materialia, 1997, 8, 987-995.	0.5	24
41	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
42	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
43	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
44	Nonlinear Susceptibility of Ni near the Curie Temperature. Journal of the Physical Society of Japan, 1995, 64, 951-959.	1.6	17
45	Linear and Nonlinear Susceptibilities of Ferromagnetic Fine Particles in Cu97Co3Alloy. Journal of the Physical Society of Japan, 1995, 64, 1311-1319.	1.6	31
46	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
47	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
48	Superconductivity in Selenospinel CuRh2Se4. Journal of the Physical Society of Japan, 1993, 62, 374-375.	1.6	15
49	Superconductivity in Thiospinel CuRh2S4. Journal of the Physical Society of Japan, 1992, 61, 3011-3012.	1.6	32
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	Experimental Investigation on the Tilt Helical Milling of Carbon Fiber Reinforced Plastics (CFRP). Key Engineering Materials, 0, 792, 173-178.	0.4	0
52	Fundamental Investigation on the Polishing Aspheric Elements with Doughnut-Shaped MCF Slurry. Key Engineering Materials, 0, 792, 179-184.	0.4	6
53	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