

Wen Cheng Chang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High performance $\text{Fe}/\text{Nd}_2\text{Fe}_{14}\text{B}$ -type nanocomposites. Applied Physics Letters, 1998, 72, 121-123.	3.3	112
2	Magnetic property enhancement of melt-spun $\text{Pr}_2\text{Fe}_{23}\text{B}_3$ ribbons with dilute Ti substitution. Applied Physics Letters, 2003, 82, 4513-4515.	3.3	55
3	Magnetocaloric effect in Fe-Zr-B-M (M=Mn, Cr, and Co) amorphous systems. Journal of Applied Physics, 2009, 105, .	2.5	44
4	Magnetic properties and crystal structure of melt-spun $\text{Sm}(\text{Co}, \text{M})_7$ ($\text{M}=\text{Al}$ and Si) ribbons. Journal of Applied Physics, 2012, 111, .	2.5	24
5	Magnetic properties, phase evolution, and microstructure of melt spun $\text{SmCo}_7\text{Hf}_x\text{Cy}$ ($x=0-0.5$); T_j $10,784314 \text{ K} / \text{Oe}$	2.5	23
6	Magnetic properties, phase evolution, and structure of melt spun SmCo_7Nb_x ($x=0-0.6$) ribbons. Journal of Applied Physics, 2009, 105, 07A731.	2.5	23
7	Alloying effect on the magnetic properties of RFeB -type bulk magnets. Journal Physics D: Applied Physics, 2011, 44, 064002.	2.8	23
8	Thermal stability and magnetocaloric effect of the $\text{Gd}_{65}\text{Fe}_{20}\text{Al}_{15}\text{B}_x$ ($x=0-7$) glassy ribbons. Journal of Applied Physics, 2010, 107, 09A901.	2.5	21
9	Exchange bias in sputtered FM/BiFeO_3 thin films ($\text{FM}=\text{Fe}$ and Co). Journal of Applied Physics, 2012, 111, 2.5	2.5	21
10	Crystal structure and magnetic properties of melt spun $\text{Sm}(\text{Co},\text{V})_7$ ribbons. Journal of Applied Physics, 2009, 105, 07A705.	2.5	20
11	Hard magnetic property enhancement of Co_7Hf -based ribbons by boron doping. Applied Physics Letters, 2014, 105, .	3.3	19
12	Effect of Ge on the magnetic properties and crystal structure of melt spun SmCo_7Ge_x ribbons. Journal of Applied Physics, 2011, 109, .	2.5	18
13	Sputter-prepared $\text{BiFeO}_3(001)$ films on $\text{L}_{10}\text{FePt}(001)$ /glass substrates. Journal of Applied Physics, 2012, 111, 07D918.	2.5	18
14	Comparison on the coercivity enhancement of sintered NdFeB magnets by grain boundary diffusion with low-melting (Tb , R) $_{75}\text{Cu}_{25}$ alloys ($\text{R}=\text{None}$, Y , La , and Ce). AIP Advances, 2019, 9, .	1.3	17
15	Effect of diamagnetic barium substitution on magnetic and photovoltaic properties in multiferroic BiFeO_3 . Journal of Applied Physics, 2014, 115, .	2.5	15
16	Phase evaluation, magnetic, and electric properties of $\text{Mn}_{60+x}\text{Ga}_{40-x}$ ($x=0-15$) ribbons. Journal of Applied Physics, 2014, 115, 17A750.	2.5	15
17	Crystal structure and magnetic properties of melt spun SmCo_7M_x ($\text{M}=\text{Ta}$, Cr , and Mo ; $x=0-0.6$) ribbons. Journal of Applied Physics, 2010, 107, .	2.5	14
18	Magnetic property improvement of Pt-lean FePt/FeB -type nanocomposites by Co substitution. Journal of Applied Physics, 2008, 103, .	2.5	13

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19	Magnetic properties, phase evolution, and microstructure of melt spun Sm(Co,M)xCy (M=Hf and Zr; Tj ETQq1 1 0.784314 rgBT /Ove	2.5	13
20	Effects of C and Cr contents on the magnetic properties and microstructure of directly quenched NdFeTiZrCrBC bulk magnets. Journal of Applied Physics, 2010, 107, .	2.5	13
21	Magnetic properties and microstructure of bulk Nd-Fe-B magnets solidified in magnetic field. Journal of Applied Physics, 2011, 109, .	2.5	13
22	Improvement of size and magnetic properties of Nd _{9.5} Fe _{72.5} Ti ₃ B ₁₅ bulk magnets by Zr or Nb substitution for Ti. Journal of Applied Physics, 2009, 105, 07A742.	2.5	12
23	The effect of doping element Zr on anisotropy and microstructure of SmCo _{7-x} Zr _x . Journal of Applied Physics, 2011, 109, 07A748.	2.5	12
24	A study on the magnetic properties of melt spun Co-Hf-Zr-B nanocomposite ribbons. Journal of Applied Physics, 2014, 115, .	2.5	12
25	Coercivity enhancement of hot-deformed NdFeB magnet by doping R ₈₀ Al ₂₀ (R = La, Ce, Dy, Tb) alloy powders. AIP Advances, 2021, 11, .	1.3	12
26	High magnetic properties of nanocomposite ribbons made with Mischmetals-Fe-Co-Ti-B alloys. Journal of Applied Physics, 2009, 105, .	2.5	11
27	Structures and magnetocaloric effects of Gd _{65-x} RE _x Fe ₂₀ Al ₁₅ (x=0-20; RE=Tb, Dy, Ho, and Er) ribbons. Journal of Applied Physics, 2011, 109, 07A933.	2.5	10
28	Comparison on the coercivity enhancement of the sintered NdFeB magnets by grain boundary diffusion with Tb ₇₀ Cu ₃₀ powders prepared by different milling methods. AIP Advances, 2021, 11, .	1.3	10
29	Enhancement of coercivity for melt-spun SmCo _{7-x} Ta _x ribbons with Ta addition. Journal of Applied Physics, 2010, 107, .	2.5	9
30	Magnetic Properties and Crystal Structure of Melt Spun $\text{SmCo}_{7-x}\text{Sn}_x$ ($x=0-0.6$) Ribbons. IEEE Transactions on Magnetics, 2011, 47, 3332-3335.	2.1	9
31	Perpendicular magnetic anisotropic Pr-Fe-B thin films on glass substrates. Journal of Applied Physics, 2014, 115, .	2.5	8
32	Magnetic Properties and Crystallographic Structure of Fe ₃ Pt Thin Films. IEEE Transactions on Magnetics, 2008, 44, 3902-3905.	2.1	7
33	The influence of Si addition on the glass forming ability, magnetic and magnetocaloric properties of the Gd-Fe-Al glassy ribbons. Journal of Applied Physics, 2011, 109, 07A911.	2.5	7
34	Studies of V, Nb, Cr, and Zr substituted 2:17 compounds and their carbides using neutron diffraction. Journal of Applied Physics, 1997, 81, 4542-4544.	2.5	6
35	Study on the soft magnetic properties and high frequency characteristics of Co-M (M=Ti, Zr, and Hf) thin films. Journal of Applied Physics, 2012, 111, 07A333.	2.5	6
36	Hard Magnetic Property Improvement of Sputter-Prepared FePd Films on Glass Substrates by Underlayering With Refractory Nb, Mo, and W Elements. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	6

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37	Overview of the Ways for Enhancing the Coercivity of Hot-Deformed Nd ₂ Fe ₁₄ B-Type Magnets. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	6
38	A neutron diffraction structural study of R ₂ Fe ₁₇ xAl _x (C) (R=Tb, Ho) alloys. Journal of Applied Physics, 1998, 83, 6914-6916.	2.5	5
39	Effect of B content on the magnetic properties, phase evolution, and aftereffect of nanocrystalline FeCoPtB ribbons. Journal of Applied Physics, 2009, 105, 07A746.	2.5	5
40	MAGNETIC PROPERTIES AND CRYSTAL STRUCTURE OF MELT SPUN (Sm(Co, _{0.0}), Tj ETQq0 0.0 rgBT /Overlock 10	1.9	5
41	Magnetostriction and \hat{I}^{\prime} E effect of melt-spun (Fe ₈₁ xCo _x Ga ₁₉) ₈₀ B ₂₀ ribbons. Journal of Applied Physics, 2012, 112, 053904.	2.5	5
42	Optimization of the Magnetic Properties of Hot Deformed Nd-Fe-B Magnets. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	5
43	Magnetic properties and microstructure of nanocomposite Pr ₂ Fe ₁₄ (B,C) \hat{a}^{\pm} Fe melt-spun ribbons. Journal of Applied Physics, 2005, 97, 10K309.	2.5	4
44	Comparison on the Coercivity Enhancement of Hot-Deformed Nd ₂ Fe ₁₄ B-Type Magnets by Doping R ₇₀ Cu ₃₀ (R = Nd, Dy, and Tb) Alloy Powders. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	4
45	Correlation between phase composition and exchange bias in CoFe/MnN and MnN/CoFe polycrystalline films. AIP Advances, 2020, 10, 025035.	1.3	4
46	Magnetic Properties of Ce \hat{a}, \dots Al \hat{a}, \dots Doped NdFeB Sintered Magnet by Grain Boundary Diffusion of Tb \hat{a}, \dots Cu \hat{a}, \dots Powders. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	4
47	PHASE EVOLUTION AND MAGNETIC PROPERTIES OF TbCu ₇ -TYPE (Sm, _{0.0}) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (Pr) _{7-x} Co _{7-x} (x = 0-0.5; y = 0-0.14) RIBBONS. International Journal of Modern Physics B, 2009, 23, 1663-1669.	2.0	3
48	Optimization of high frequency characteristics in Co-Ta thin films. Journal of Applied Physics, 2014, 115, 17A312.	2.5	3
49	Magnetic Properties and Microstructure of Directly Quenched R-Fe-Ti-Zr-Cr-B-C Bulk Magnets (R={Nd}, Pr, and Mischmetals). IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3
50	Inhomogeneity on texture, microstructure and magnetic properties of hot deformed R ₂ Fe ₁₄ B-typed magnet. International Journal of Modern Physics B, 2015, 29, 1540007.	2.0	3
51	Comparison on the structure and exchange bias in Co/MnPt and MnPt/Co polycrystalline films on glass substrates. AIP Advances, 2019, 9, 035330.	1.3	3
52	The role of combined addition of Ti and B in magnetic hardening of devitrified Pr ₂ Fe ₁₄ B/(Fe ₃ B) \hat{a} Fe nanocomposite magnets. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1207-1210.	1.8	2
53	HIGH MAGNETIC PROPERTIES OF TbCu ₇ -TYPE MELT SPUN (Sm, Pr)Co _{7-x} Hf _x Cy RIBBONS. Functional Materials Letters, 2008, 01, 183-187.	1.2	2
54	MAGNETIC PROPERTIES, NANOSTRUCTURE AND ORDERING KINETICS OF FePtCu THIN FILMS. International Journal of Modern Physics B, 2009, 23, 1652-1657.	2.0	2

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55	A Study on the Phase Evolution and Magnetic Properties of Nd _{0.5-1.5} Fe _{15+2x} Ti _{2.5} Zr _{0.5} B ₁₅ Bulk Magnets. IEEE Transactions on Magnetics, 2013, 49, 3364-3367.	2.1	2
56	Optimization of permanent magnetic properties in melt spun Co ₈₂ Hf ₁₂ B ₆ (x=0-4) nanocomposites. Journal of Applied Physics, 2015, 117, 17A717.	2.5	2
57	Magnetic Property Enhancement of Melt Spun YCo ₅ Ribbons by Fe and C Doping. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
58	Hard Magnetic Property Improvement of Melt-Spun PrCo ₅ Ribbons by Fe and C Doping. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	2
59	Phase modification and magnetic property improvement in melt spun LaCo ₅ -based ribbons. Journal of Materials Science, 2022, 57, 8800-8817.	3.7	2
60	Magnetic Property Enhancement of FePt Films by Zr Underlayering. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
61	Martensitic Transitions and Magnetocaloric Properties in Mn ₄₉ CoxNi ₄₁ Sn ₁₀ (x = 0-4) Ribbons. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
62	Phase Structure and Magnetic Properties of Mn ₇₀ Ga ₃₀ xSn _x (x = 5-30) Alloy Ribbons. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
63	Large stress-induced anisotropy in soft magnetic films for synthetic spin valves. Applied Physics Letters, 2021, 119, 242402.	3.3	1
64	Magnetic behaviors in melt spun Fe ₅₂ Mn ₂₃ Ga ₂₅ (x=0-3) ribbons. Journal of Applied Physics, 2014, 115, 17D709.	2.5	0
65	Magnetocaloric Properties of Melt-Spun FeNiMnGa Ribbons. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	0
66	Phase structure and magnetic properties of Mn ₇₀ Ga _{30-x} Sn _x (x = 5-30) alloy ribbons. , 2015, , .		0
67	Effects of Pt Buffer Layer and Sr Content on Multiferroic (Bi, Sr)FeO ₃ Polycrystalline Thin Films on Glass Substrates. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	0