

# Tetsuji Saito

## List of Publications by Year in descending order

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80  
papers

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430874

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552781

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80  
all docs

80  
docs citations

80  
times ranked

566  
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance Co-Zr-B melt-spun ribbons. Applied Physics Letters, 2003, 82, 2305-2307.	3.3	57
2	Recovery of rare earths from sludges containing rare-earth elements. Journal of Alloys and Compounds, 2006, 425, 145-147.	5.5	54
3	Magnetic properties of Mn-Al system alloys produced by mechanical alloying. Journal of Applied Physics, 2003, 93, 8686-8688.	2.5	35
4	Magnetic properties of Mn-Bi melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2014, 349, 9-14.	2.3	35
5	Hard magnetic properties of Mn-Ga melt-spun ribbons. Journal of Applied Physics, 2012, 112, .	2.5	34
6	Sm-Fe-N bulk magnets produced by compression shearing method. Scripta Materialia, 2005, 53, 1117-1121.	5.2	33
7	Magnetic properties of Sm-Fe-Ti nanocomposite magnets with a ThMn <sub>12</sub> structure. Journal of Alloys and Compounds, 2012, 519, 144-148.	5.5	33
8	Magnetic properties of SmCo <sub>5</sub> -xFe <sub>x</sub> (x=0-4) melt-spun ribbon. Journal of Alloys and Compounds, 2014, 585, 423-427.	5.5	33
9	High coercivity in Sm <sub>5</sub> Fe <sub>17</sub> melt-spun ribbon. Journal of Alloys and Compounds, 2007, 440, 315-318.	5.5	28
10	Production of Sm-Fe-N bulk magnets by spark plasma sintering method. Journal of Magnetism and Magnetic Materials, 2014, 369, 184-188.	2.3	26
11	Electrical resistivity and magnetic properties of Nd-Fe-B alloys produced by melt-spinning technique. Journal of Alloys and Compounds, 2010, 505, 23-28.	5.5	25
12	Microstructures of Co-Zr-B alloys produced by melt-spinning technique. Journal of Alloys and Compounds, 2013, 572, 124-128.	5.5	23
13	Hard magnetic properties of anisotropic Sm-Fe-N magnets produced by compression shearing method. Journal of Magnetism and Magnetic Materials, 2011, 323, 2154-2157.	2.3	22
14	Effects of cooling rate on microstructures and magnetic properties of Nd-Fe-B alloys. Journal of Alloys and Compounds, 2004, 363, 268-275.	5.5	21
15	Magnetic properties of Nd-Fe binary alloys produced by a metallic mold casting method. Journal of Applied Physics, 2002, 91, 8828.	2.5	19
16	Anisotropic Sm-Fe-N magnets produced by compression shearing method. Applied Physics Letters, 2006, 89, 162511.	3.3	19
17	Magnetic properties of Sm-Fe-N bulk magnets produced from Cu-plated Sm-Fe-N powder. AIP Advances, 2017, 7, .	1.3	19
18	Magnetic properties of SmFe <sub>12</sub> -based magnets produced by spark plasma sintering method. Journal of Alloys and Compounds, 2019, 773, 1018-1022.	5.5	19

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19	Production of iron nitrides by mechanical alloying. Journal of Applied Physics, 2000, 87, 6514-6516.	2.5	18
20	New method for the production of bulk amorphous materials of Nd-Fe-B alloys. Journal of Materials Research, 2005, 20, 563-566.	2.6	17
21	Enhancement of magnetic properties by Zn addition in Nd-Fe-B hot-deformed magnets produced by spark plasma sintering method. Journal of Alloys and Compounds, 2016, 687, 662-666.	5.5	16
22	Synthesis and magnetic properties of Sm <sub>5</sub> Fe <sub>17</sub> hard magnetic phase. Scripta Materialia, 2007, 57, 457-460.	5.2	15
23	High-coercivity SmCo <sub>5</sub> /Fe nanocomposite magnets. Journal of Alloys and Compounds, 2018, 735, 218-223.	5.5	15
24	Structures and magnetic properties of Sm-Fe-N bulk magnets produced by the spark plasma sintering method. Journal of Materials Research, 2007, 22, 3130-3136.	2.6	13
25	Magnetic properties of Ti-Fe alloy powders prepared by mechanical grinding. Journal of Alloys and Compounds, 2004, 364, 113-116.	5.5	12
26	Magnetic properties of anisotropic Sm-Fe-N bulk magnets produced by spark plasma sintering method. Journal of Magnetism and Magnetic Materials, 2008, 320, 1893-1897.	2.3	12
27	Ferromagnetic carbon materials prepared from polyacrylonitrile. Applied Physics Letters, 2011, 98, .	3.3	12
28	Production of Sm-Fe-N bulk magnets by the spark plasma sintering method with dynamic compression. Journal of Alloys and Compounds, 2016, 673, 195-198.	5.5	12
29	The Extraction of Sm from Sm-Co alloys by the Glass Slag Method. Materials Transactions, 2003, 44, 637-640.	1.2	11
30	Magnetic and thermoelectric properties of melt-spun ribbons of Fe <sub>2</sub> XAl (X = Co, Ni) Heusler compounds. Journal of Applied Physics, 2018, 124, 075105.	2.5	11
31	Magnetic and thermoelectric properties of Co <sub>2</sub> MnT (T = Ga, Si) Heusler compounds. Physica B: Condensed Matter, 2021, 603, 412761.	2.7	10
32	Microstructure of Nd-Fe-B Alloys Solidified under Microgravity Conditions. Materials Transactions, JIM, 2000, 41, 1121-1124.	0.9	9
33	High coercivity Sm-Fe melt-spun ribbon. Journal of Applied Physics, 2009, 105, 07A716.	2.5	9
34	Structures and magnetic properties of Co-Ni-Ga melt-spun ribbons. Journal of Applied Physics, 2008, 103, 07B322.	2.5	8
35	Magnetic properties of Sm-Fe-N bulk magnets prepared from Sm <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> melt-spun ribbons. Journal of Applied Physics, 2015, 117, .	2.5	8
36	Synthesis of Sm(Co,Fe) <sub>4</sub> B compounds by rapid quenching and subsequent heat treatment. Intermetallics, 2019, 107, 6-9.	3.9	8

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37	Magnetic Properties of Pr&ndash;Fe&ndash;Al Alloys Produced by the Metallic Mold Casting Method. Materials Transactions, 2005, 46, 2940-2944.	1.2	7
38	Magnetization process of Sm <sub>5</sub> Fe <sub>17</sub> magnets. Journal of Applied Physics, 2007, 102, 023914.	2.5	7
39	Consolidation of Sm <sub>5</sub> Fe <sub>17</sub> powder by spark plasma sintering method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 150, 38-42.	3.5	6
40	Annealing of Amorphous Sm<sub>5</sub>/<sub>>Fe<sub>17</sub>/<sub>> Melt-Spun Ribbon. Materials Transactions, 2008, 49, 1446-1450.	1.2	6
41	Magnetic properties of Co-Zr-B magnets produced by spark plasma sintering method. Journal of Applied Physics, 2014, 115, 17A749.	2.5	6
42	High coercivity in Mn-Ga-Cu alloys. AIP Advances, 2016, 6, .	1.3	6
43	High-coercivity Sm(Fe,V,Ti) <sub>12</sub> bulk magnets. Materials Research Bulletin, 2021, 133, 111060.	5.2	6
44	Structures and magnetic properties of Nd&acirc;Fe&acirc;Ti alloys produced by melt-spinning technique. Journal of Alloys and Compounds, 2005, 402, 242-245.	5.5	5
45	Synthesis and magnetic properties of (Nd <sup>1-x</sup> Sm <sup>x</sup> ) <sub>5</sub> Fe <sub>17</sub> &acirc;(x=&acirc;1) phase. Applied Physics Letters, 2007, 91, .	3.3	5
46	Magnetic properties of isotropic Sm&acirc;Fe&acirc;N magnets produced by compression shearing method. Journal of Applied Physics, 2012, 111, .	2.5	5
47	Magnetic properties of Sm&acirc;Fe&acirc;N bulk magnets produced by compression shearing method. Journal of Applied Physics, 2006, 99, 08B509.	2.5	4
48	Relationship between hydrogen content and magnetic properties of diamondlike carbon produced by the rf plasma-enhanced chemical vapor deposition method. Journal of Applied Physics, 2010, 107, 073522.	2.5	4
49	Magnetic Properties of Sm-Zr-Fe Melt-Spun Ribbons. IEEE Transactions on Magnetism, 2013, 49, 3345-3348.	2.1	4
50	Synthesis of SmFe <sub>5</sub> intermetallic compound. AIP Advances, 2020, 10, .	1.3	4
51	The magnetic properties of Nd&acirc;Fe&acirc;B powders produced by mechanical grinding in hydrogen atmosphere. Journal of Applied Physics, 1999, 85, 5687-5689.	2.5	3
52	Structures and magnetic properties of Nd&acirc;Fe alloys produced by the glass slag method. Journal of Alloys and Compounds, 2006, 414, 88-93.	5.5	3
53	Magnetic properties of Sm <sub>5</sub> (Fe,Co) <sub>17</sub> melt-spun ribbons. Journal of Applied Physics, 2008, 103, 07E118.	2.5	3
54	Magnetic properties of Pr-Fe-Ti-B nanocomposite magnets produced by spark plasma sintering method. Journal of Applied Physics, 2011, 109, 07A754.	2.5	3

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55	Magnetic properties of (Sm,Y) <sub>5</sub> Fe <sub>17</sub> melt-spun ribbons. Journal of Applied Physics, 2011, 109, 07A724.	2.5	3
56	Magnetic properties of (Sm,Zr)Fe <sub>10</sub> and (Sm,Zr)Fe <sub>9.5</sub> Ti <sub>0.5</sub> melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2022, 542, 168573.	2.3	3
57	Microstructures and Magnetic Properties of Nd-Fe-B-X (X=Co, Zr) Alloys Produced by a Metallic Mold Casting Method. Materials Transactions, 2001, 42, 1893-1896.	1.2	2
58	Synthesis and magnetic properties of Sm <sub>3</sub> (Fe, Ti) <sub>29</sub> compound. Journal of Alloys and Compounds, 2008, 454, 210-213.	5.5	2
59	Synthesis and magnetic properties of (Pr <sub>1-x</sub> Sm <sub>x</sub> ) <sub>5</sub> Fe <sub>17</sub> (x=0~1) phase. Journal of Alloys and Compounds, 2009, 488, 13-17.	5.5	2
60	Magnetic Properties of Nd-Fe-B Anisotropic Magnets Prepared by Spark Plasma Sintering Method. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 647-651.	0.2	2
61	Coercivity of Nd-Fe-B hot-deformed magnets produced by the spark plasma sintering method. AIP Advances, 2017, 7, .	1.3	2
62	Sm <sub>5</sub> (Fe,Ti) <sub>17</sub> melt-spun ribbons with high coercivity. AIP Advances, 2018, 8, 056228.	1.3	2
63	Magnetic Properties of Sm(FeTi) <sub>17</sub> , Hot-Deformed Magnets. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	2
64	Magnetic properties of Sm <sub>5</sub> Fe <sub>17</sub> melt-spun ribbons and their borides. AIMS Materials Science, 2015, 2, 392-400.	1.4	2
65	Magnetic properties of Sm <sub>5</sub> Fe <sub>17</sub> -based magnets produced by spark plasma sintering method. IOP Conference Series: Materials Science and Engineering, 2009, 1, 012032.	0.6	1
66	Magnetic properties of Sm <sub>5</sub> Fe <sub>17</sub> /Fe composite magnets produced by spark plasma sintering method. Journal of Applied Physics, 2012, 111, 07B534.	2.5	1
67	Structures and magnetic properties of Sm <sub>5</sub> Fe <sub>17</sub> melt-spun ribbon. Journal of Applied Physics, 2012, 111, 07E322.	2.5	1
68	Magnetic Properties of Sm-Fe-N/Co-B Composite Magnets Prepared by Chemical Reduction. Advances in Condensed Matter Physics, 2017, 2017, 1-4.	1.1	1
69	Effects of titanium and zirconium addition on magnetic properties of Sm <sub>2</sub> Fe <sub>17</sub> melt-spun ribbons. AIP Advances, 2018, 8, 056230.	1.3	1
70	Magnetic and Thermoelectric Properties of Fe-Ti-Sn Alloys. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	1
71	Structures and magnetic properties of (Ce,Sm)Co <sub>2</sub> Fe <sub>2</sub> B melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2020, 513, 167189.	2.3	1
72	Production of anisotropic SmFe <sub>3</sub> magnets by hot deformation. AIP Advances, 2020, 10, 015134.	1.3	1

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73	Structures and magnetic properties of SmFe <sub>5</sub> Tix melt-spun ribbons with SmFe <sub>5</sub> and Sm <sub>5</sub> Fe <sub>17</sub> phases. Journal of Magnetism and Magnetic Materials, 2021, 535, 168070.	2.3	1
74	Shock Consolidation of Amorphous Nd-Fe-B Powders with Lower Nd Content. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 457-461.	0.4	1
75	Magnetic Properties of SmFe <sub>3</sub> -Type Sm-Zr-Fe-Co-Ti Melt-Spun Ribbons. Materials Transactions, 2019, 60, 1384-1389.	1.2	1
76	Magnetic Properties of (Ce,Sm)Fe <sub>11</sub> Ti Magnets. Materials Transactions, 2022, 63, 1097-1100.	1.2	1
77	Magnetic properties of (Sm,Zr)(Fe,Co) <sub>5</sub> alloys produced by the melt-spinning technique. Journal of Alloys and Compounds, 2021, 859, 157753.	5.5	0
78	Magnetic properties of (Sm,Zr)Fe <sub>5</sub> alloys and their nitrides. AIP Advances, 2021, 11, 015105.	1.3	0
79	Room temperature magnetic properties of Mn-Ga-B melt-spun ribbons. AIP Advances, 2022, 12, 035250.	1.3	0
80	Production of (Sm,Zr)(Fe,Co) <sub>3</sub> magnets. Heliyon, 2022, , e09612.	3.2	0