

# Masaru Itakura

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8956499/publications.pdf>

Version: 2024-02-01

43  
papers

486  
citations

1040056

9  
h-index

713466

21  
g-index

43  
all docs

43  
docs citations

43  
times ranked

227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic properties and microstructures of the Nd-Fe magnet powder produced by hydrogen treatment. Journal of Applied Physics, 1991, 70, 3770-3774.	2.5	97
2	Microstructures and crystallographic orientation of crystalline grains in anisotropic Nd-Fe-Co-B(Ga) Tj ETQq0 0 0 rgBT /Overlock process. Journal of Applied Physics, 1994, 76, 412-417.	2.5	84
3	Microstructure Analysis of Sintered Nd-Fe-B Magnets Improved by Tb-Vapor Sorption. Materials Transactions, 2007, 48, 915-918.	1.2	70
4	Review of Fabrication and Characterization of Nd-Fe-B Thick Films for Magnetic Micromachines. IEEE Transactions on Magnetics, 2007, 43, 2672-2676.	2.1	35
5	Microstructure analysis of Nd-Fe-B sintered magnets improved by Tb-metal vapour sorption. Journal of Microscopy, 2009, 236, 104-108.	1.8	34
6	Variations in contrast of scanning electron microscope images for microstructure analysis of Si-based semiconductor materials. Journal of Electron Microscopy, 2010, 59, S165-S173.	0.9	20
7	Microstructure Analysis of High Coercivity PLD-Made Nd-Fe-B Thick-Film Improved by Tb-Coating-Diffusion Treatment. Materials Transactions, 2010, 51, 1939-1943.	1.2	12
8	Modification of the Interface Nanostructure and Magnetic Properties in Nd-Fe-B Thin Films. Nanoscale Research Letters, 2016, 11, 33.	5.7	12
9	Enhanced Interlayer Coupling and Magnetoresistance Ratio in Fe <sub>3</sub> Si/FeSi <sub>2</sub> Superlattices. Applied Physics Express, 0, 1, 021302.	2.4	12
10	Microscopic Properties of Long-Period Ordering in Al-Rich TiAl Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1610-1617.	2.2	10
11	Long-period ordering in a TiAl single crystal with a gradient composition. Philosophical Magazine Letters, 2005, 85, 175-185.	1.2	9
12	Growth of manganese silicide layers on Si substrates using MnCl <sub>2</sub> source. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 233-237.	1.8	9
13	Microscopic studies of metal-induced lateral crystallization in SiGe. Applied Physics Letters, 2010, 96, .	3.3	8
14	Microstructure of Nd-Rich Grain Boundary Phase in Die-Upset Nd-Fe-Co-Ga-B Magnet. Materials Transactions, 2011, 52, 2239-2244.	1.2	8
15	Suppression mechanism of abnormal grain growth by Zr addition in pressless processed Nd-Fe-B sintered magnets. Journal of Alloys and Compounds, 2021, 887, 161244.	5.5	8
16	Coercivity enhancement of Dy-coated Nd-Fe-B flakes by crystallization. Journal of Applied Physics, 2011, 109, 07A701.	2.5	7
17	Magnetic properties and microstructures of the Nd-Fe magnet powder produced by hydrogen treatment (II) (abstract). Journal of Applied Physics, 1990, 67, 4665-4665.	2.5	6
18	Magnetic Properties of $\{(\text{Sm})_{1-x}(\text{Co})_x\}/\alpha\text{-Fe}\}$ Nanocomposite Thick Film-Magnets at Room and High Temperatures. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6

#	ARTICLE	IF	CITATIONS
19	Elemental Distribution near the Grain Boundary in a Nd-Fe-B Sintered Magnet Subjected to Grain-Boundary Diffusion with Dy <sub>2</sub> O <sub>3</sub> . Materials Transactions, 2020, 61, 438-443.	1.2	6
20	Grain boundary structure of high coercivity Nd-Fe-B sintered magnets with Tb-metal vapor sorption. IOP Conference Series: Materials Science and Engineering, 2009, 1, 012033.	0.6	5
21	Microstructure analysis of $\hat{\text{I}}^2\text{-FeSi}_2$ grown on Ag-coated Si(001) substrate. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1815-1818.	0.8	4
22	Evaluation of $\hat{\text{I}}^2\text{-FeSi}_2/\text{Si}$ -interface using Ag-coating on Si surface. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1684-1687.	0.8	4
23	Coercivity Enhancement in La Coated Nd-Fe-B Thin Films. Physics Procedia, 2015, 75, 1294-1299.	1.2	4
24	Effect of Mo monoatomic interlayer on magnetic properties of in-plane anisotropic Nd-Fe-B/Mo/FeCo nanocomposite multilayered films. AIP Advances, 2021, 11, .	1.3	3
25	1.5 $\hat{\mu}\text{m}$ luminescence of $\hat{\text{I}}^2\text{-FeSi}_2$ grown on Au-coated Si substrates. Materials Research Society Symposia Proceedings, 2012, 1396, .	0.1	2
26	Microstructure and coercivity in La-coated Nd <sub>2</sub> Fe <sub>14</sub> B thin films. AIP Advances, 2017, 7, 035301.	1.3	2
27	Anisotropic magnetic property of nanocomposite Nd <sub>2</sub> Fe <sub>14</sub> B/Mo/ $\hat{\text{I}}^2\text{-Fe}$ multilayer films. Journal of Physics: Conference Series, 2017, 903, 012015.	0.4	2
28	Infrared laser annealing of nanocomposite Nd-Fe-B/Mo/FeCo multilayered magnet films. AIP Advances, 2022, 12, .	1.3	2
29	HRTEM Observation of Partially Ordered Long-Period Superstructures in Al-Rich TiAl Alloys. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	1
30	TEM Analysis of Long-Period Superstructures in TiAl Single Crystal with Composition Gradient. Materials Research Society Symposia Proceedings, 2004, 842, 507.	0.1	1
31	Epitaxial growth of (010)-oriented $\hat{\text{I}}^2\text{-FeSi}_2$ film on Si(110) substrate. Materials Research Society Symposia Proceedings, 2013, 1493, 189-194.	0.1	1
32	Metal-Induced Crystallization Mechanism of Amorphous Si <sub>0.0</sub> Ge <sub>0.4</sub> Thin Film. Materia Japan, 2004, 43, 1010-1010.	0.1	1
33	Microstructure Analysis of Nd-Fe-B Sintered Magnets Recovered by Tb Metal Vapor Sorption. Materia Japan, 2006, 45, 868-868.	0.1	1
34	Anisotropic Nd <sub>2</sub> /Fe <sub>14</sub> /B based magnet powders with high remanences produced by modified HDDR process. , 1999, , .		0
35	Strain Modulation of $\hat{\text{I}}^2\text{-FeSi}_2$ by Ge-Segregation in Solid-Phase Growth of [a-Si/a-FeSiGe] <sub>n</sub> Multi-Layer. Materials Research Society Symposia Proceedings, 2003, 796, 73.	0.1	0
36	Microstructure control in HDDR process for higher anisotropic Nd-Fe-B magnet powders. , 2005, , .		0

#	ARTICLE	IF	CITATIONS
37	Magnetic Properties and Stabilities of (Nd <sub>0.76</sub> , Pr <sub>0.24</sub> )-Fe-B HDDR Powders and Injection-Molded Bonded Magnets Made from Them. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 1047-1052.	0.2	0
38	Preparation of Nd-Fe-B/±-Fe nano-composite thick-film magnets on various substrates using PLD with high laser energy density above 10 J/cm <sup>2</sup> . AIP Advances, 2018, 8, 056223.	1.3	0
39	Influence of Desorption Recombination Temperatures on Microstructure and Coercivity of HDDR-Processed Anisotropic Nd-Fe-B Magnet Powders. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2018, 82, 121-124.	0.4	0
40	Sputtered Thin Films of β-FeSi <sub>2</sub> Epitaxially Grown on Si (001) Substrates. Materia Japan, 2003, 42, 888-888.	0.1	0
41	Decomposed Structure in Nd-Fe-B Magnet Alloy-Powder during HDDR Treatment. Materia Japan, 1998, 37, 390-390.	0.1	0
42	Microstructures of Ta-Inserted SmCo <sub>5</sub> /Fe Nanocomposite Thick Film Magnets. Materials Transactions, 2017, 58, 1351-1355.	1.2	0
43	Preparation of Thick-Film Magnets and Their Applications. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2018, 69, 485-489.	0.2	0