Tokujiro Yamamoto

List of Publications by Year
in descending order

48	950	516561 16	434063 31
papers	citations	h-index	g-index

49	49	49	832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microstructure of Fragile Metallic Glasses Inferred from Ultrasound-Accelerated Crystallization in Pd-Based Metallic Glasses. Physical Review Letters, 2005, 95, 245501.	2.9	309
2	Microstructures and hydrogen absorption/desorption properties of LaNi alloys in the composition range of La77.8 â^¼ 83.2 at.%Ni. Acta Materialia, 1997, 45, 5213-5221.	3.8	87
3	Magnetic field-induced reversible variant rearrangement in Feâ€“Pd single crystals. Acta Materialia, 2004, 52, 5083-5091.	3.8	65
4	Structural instability of metallic glasses under radio-frequency-ultrasonic perturbation and its correlation with glass-to-crystal transition of less-stable metallic glasses. Journal of Chemical Physics, 2006, 125, 154502.	1.2	50
5	Double-stage glass transition in a metallic glass. Physical Review B, 2010, 81, .	1.1	37
6	Characterization of stacking faults on basal planes in intermetallic compounds La5Ni19 and La2Ni7. Intermetallics, 2000, 8, 391-397.	1.8	35
7	Evaluation of elastic strain energy associated with the formation of hydride precipitates in LaNi5. Intermetallics, 2000, 8, 613-618.	1.8	33
8	Phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ti</mml:mtext></mml:mrow><mml:mrow><mml:mn>50</mml:m by x-ray fluorescence holography. Physical Review B, 2009, 80, .	1.1	30
9	Local atomic structure near an Nb atom in aged Î²â€“Ti alloys. Acta Materialia, 2017, 131, 534-542.	3.8	28
10	Ni-Rich Bulk Metallic Glasses with High Glass-Forming Ability and Good Metallic Properties. Materials Transactions, 2009, 50, 2441-2445.	0.4	26
11	Deformation of LaNi5 by uniaxial compression and hydrogenation. Intermetallics, 2001, 9, 987-991.	1.8	24
12	Ultrahigh Strength and High Electrical Conductivity Characteristics of Cu-Zr Alloy Wires with Nanoscale Duplex Fibrous Structure. Materials Transactions, 2006, 47, 1595-1598.	0.4	24
13	A wavelength dispersive Xâ€“ray spectrometer for small area Xâ€“ray fluorescence spectroscopy at SPringâ€“8 BL39XU. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1999, 54, 171-177.	1.5	20
14	Crystallization Behavior and Structural Stability of Zr₅₀Cu₄₀Al₁₀ Bulk Metallic Glass. Materials Transactions, 2009, 50, 1340-1345.	0.4	20
15	Precipitation of the ZrCu B2 phase in Zr₅₀Cu_{50â€“}_xAl_x (x = 0, 4, 6) metallic glasses by rapidly heating and cooling. Journal of Materials Research, 2010, 25, 793-800.	1.2	18
16	Martensitic transformation and microstructure of Ti-rich Tiâ€“Ni as-atomized powders. Acta Materialia, 2008, 56, 5927-5937.	3.8	17
17	Effect of Al Addition on Superelastic Properties of Aged Ti–Nb–Zr–Al Quaternary Alloys. Materials Transactions, 2012, 53, 1981-1985.	0.4	17
18	Effect of ball-milling and shot-peening on Zr55Al10Ni5Cu30 alloys. Journal of Alloys and Compounds, 2007, 430, 97-101.	2.8	14

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19	Effects of lattice defects on hydrogen absorptionâ€“desorption pressures in LaNi5. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 329-331, 367-371.	2.6	11
20	Fluorine KÎ± X-ray fluorescence spectra of MnF2 excited at threshold. Solid State Communications, 1998, 105, 381-385.	0.9	10
21	Structural relaxation and crystallization processes in Cu55Hf25Ti15Pd5 metallic glassy alloy. Intermetallics, 2012, 23, 177-181.	1.8	10
22	Comparison between X-ray photoelectron and X-ray absorption spectra of an environmental aerosol sample measured by synchrotron radiation. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1999, 54, 241-245.	1.5	9
23	C-type dislocations emitted from cracks introduced in a thin foil of LaNi5. Journal of Alloys and Compounds, 1998, 269, 294-296.	2.8	8
24	Reversible strain induced by martensite variant rearrangement under magnetic field and mechanical loading of Feâ€“Pd single crystals. Applied Physics Letters, 2007, 90, 251905.	1.5	7
25	Mechanical Properties and Microstructures of Composites of Ti-Based Metallic Glass and β–Ti. Materials Transactions, 2007, 48, 1812-1815.	0.4	6
26	Magnetic properties of nanocrystallized Feâ€“Ptâ€“B melt-spun ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 472-476.	2.6	4
27	Local melting in Al embedded with TiNi powder induced by microarea self-propagating high-temperature synthesis. Philosophical Magazine, 2014, 94, 3234-3246.	0.7	4
28	Grazing incidence X-ray absorption spectra of (Si/W) 100/Si multilayer. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1999, 54, 223-226.	1.5	3
29	Non-Monotonic Aging Temperature Dependence of Superelasticity of Ti₇₂Nb₁₅Zr₁₀Al₃ Quaternary Alloys. Materials Transactions, 2013, 54, 1502-1509.	0.4	3
30	Crystallization of Zr50Cu40Al10 Metallic Glass by Rapid Heating Process. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 205-208.	0.1	3
31	Preparation of thin foils for transmission electron microscopy from hydrogenated intermetallic compounds. Journal of Alloys and Compounds, 2003, 358, 205-209.	2.8	2
32	Electrical Resistance Change due to Hydrogenation of Pd and Pd–Ni Thin Films Immersed in Hydrogen-Dissolved Water. Materials Transactions, 2005, 46, 1687-1691.	0.4	2
33	Viscous Flow Behaviors of Supercooled Liquids of Pre-Annealed Zr₅₅Cu₃₀Al₁₀Ni₅ Bulk Metallic Glasses. Materials Science Forum, 2007, 561-565, 1271-1274.	0.3	2
34	Preparation of Fe–Pt–Si Amorphous Ribbons and Their Coercivity after Crystallization. Materials Transactions, 2007, 48, 74-79.	0.4	2
35	Pd-based metallic glass with a low glass transition temperature. Journal of Non-Crystalline Solids, 2013, 359, 46-50.	1.5	2
36	Amorphization at the Welded Boundary between 5052 Aluminum Alloy and Zirconium by Friction Stir Diffusion Bonding. Materials Transactions, 2021, 62, 1177-1183.	0.4	2

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37	Ni2MnAl Single Crystals for Magnetic Scattering Neutron Holography. E-Journal of Surface Science and Nanotechnology, 2011, 9, 331-333.	0.1	2
38	Effect of Nanocrystal Distribution on Mechanical Properties of Ti-Based Metallic Glasses. Materials Transactions, 2007, 48, 1288-1291.	0.4	1
39	X-ray Fluorescence Holography for a Tiâ€“Nb Binary Alloy Consisting of the Martensite, Austenite and Omega Phase. Zeitschrift Fur Physikalische Chemie, 2016, 230, 509-517.	1.4	1
40	Amorphization at the welded boundary between 5052 aluminum alloy and zirconium by friction stir diffusion bonding. Keikinzoku/Journal of Japan Institute of Light Metals, 2020, 70, 523-529.	0.1	1
41	Mn LÎ±,Î² and F KÎ± resonant X-ray fluorescence spectroscopy of MnF2. Journal of Synchrotron Radiation, 1998, 5, 1067-1068.	1.0	0
42	Microstructure-hydrogen sorption property relationships in LaNi5-based alloys. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	0
43	Effects of Additional Elements on Microstructures of Zr-Based Metallic Glass Ribbons. Materials Science Forum, 2007, 539-543, 2000-2005.	0.3	0
44	Observation of reflected X-rays from end face of organic thin film. Journal of Physics: Conference Series, 2007, 83, 012029.	0.3	0
45	Precipitation in Zr-Based Ternary Alloys during Quenching. Materials Science Forum, 0, 706-709, 1348-1352.	0.3	0
46	Radial and longitudinal variations in the Young's modulus of a Zr55Al10Ni5Cu30 bulk metallic glass rod. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 459-464.	2.6	0
47	Detection of structural change of Pdâ€“Cuâ€“Ge metallic glass thin films upon heat treatment by using X-ray reflectivity. Japanese Journal of Applied Physics, 2014, 53, 05FH03.	0.8	0
48	Measurement of crystallization temperature of Pd-based amorphous alloy thin film by energy dispersive X-ray reflectometry. Transactions of the Materials Research Society of Japan, 2009, 34, 627-629.	0.2	0