Masao Morishita

List of Publications by Year
in descending order

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70	732	516710 16	610901 24
papers	citations	h-index	g-index

71	71	71	282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a Prototype Thermodynamic Database for Nd-Fe-B Permanent Magnets. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2022, 69, S52-S62.	0.2	0
2	Calorimetric study of Zn₁₃La. International Journal of Materials Research, 2022, 95, 708-712.	0.3	0
3	Catalytic activity of Co-nanocrystal-doped tungsten carbide arising from an internal magnetic field. RSC Advances, 2021, 11, 14063-14070.	3.6	5
4	Efficient Hydrogen Generation from Ammonia Borane over Ru-Fe/porous CeO₂ Induced by Intrinsic Charge State and Self-organized Microstructure. ISIJ International, 2021, 61, 1037-1042.	1.4	2
5	Compositionâ€“Oxygen Partial Pressure Diagram of the Crâ€“Bâ€“O Ternary System Based on the Standard Gibbs Energies of Formation of CrB₄, CrB₂, Cr₃B₄, Cr₅B₃ and CrBO₃ Determined by Solid Electrolyte. Materials Transactions, 2021, 62, 821-828.	1.2	1
6	Development of a prototype thermodynamic database for Nd-Fe-B permanent magnets. Science and Technology of Advanced Materials, 2021, 22, 557-570.	6.1	9
7	Hydrogen Generation from Ammonia-Borane over Niâ€“B Amorphous Alloys Prepared from Aqueous Solution Based on Thermodynamic Prediction of Hidden Metastable of State. Materials Transactions, 2021, 62, 1368-1375.	1.2	0
8	Calorimetric study of Nd2Fe14B: Heat capacity, standard Gibbs energy of formation and magnetic entropy. Thermochimica Acta, 2020, 690, 178672.	2.7	7
9	Determination of Gibbs Energies of Formation of Cr₃B₄, CrB₂, and CrB₄ by Electromotive Force Measurement Using Solid Electrolyte. Materials Transactions, 2020, 61, 2357-2362.	1.2	3
10	Pd-Dispersed CeO₂ Catalyst Prepared from Dealloying the Pdâ€“Ceâ€“Al Ternary Amorphous Alloy Used for Oxidation Reaction. Materials Transactions, 2020, 61, 1848-1852.	1.2	1
11	Hydrogen Generation from Ammonia Borane over Ru/Nanoporous CeO₂ Catalysts Prepared from Amorphous Alloys. Materials Transactions, 2019, 60, 845-848.	1.2	12
12	Thermodynamic Properties for Nd₂(MoO₄)₃ Formed in the Nuclear Fuel Waste Glasses. Materials Transactions, 2019, 60, 111-120.	1.2	5
13	Preparation of Nanoporous CeO₂ Catalyst Supports by Chemical Treatment of Amorphous Alloys and Investigation of Ni/CeO₂ Catalytic Activity. Materials Transactions, 2019, 60, 1964-1967.	1.2	5
14	Thermodynamic properties of cerium molybdate. International Journal of Materials Research, 2019, 110, 715-725.	0.3	0
15	Thermodynamic properties for Sm2(MoO4)3 determined by calorimetric measurement and re-evaluation of heat capacities for elemental molybdenum: standard entropy, NÃ©el temperature, solubility product. Monatshefte FÃ¼r Chemie, 2018, 149, 341-356.	1.8	7
16	Thermodynamic properties for MMoO4 (M = Mg, Sr and Ba) as the end-members of the yellow phases formed in the nuclear fuel waste glasses. Applied Geochemistry, 2018, 98, 310-320.	3.0	11
17	Thermodynamic properties for calcium molybdate, molybdenum tri-oxide and aqueous molybdate ion. Journal of Chemical Thermodynamics, 2017, 114, 30-43.	2.0	19
18	Determination of Gibbs Energy of Mixing of Tungsten-Boron Binary System by Electromotive Force Measurement Using Solid Electrolyte. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1703-1714.	2.1	4

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19	Third Law Entropy of Silver Molybdate. Materials Transactions, 2017, 58, 868-872.	1.2	11
20	Thermodynamic Properties for Nd₂(MoO₄)₃ Formed in the Nuclear Fuel Waste Glasses. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2017, 81, 485-493.	0.4	4
21	Third Law Entropy of Barium Molybdate. Materials Transactions, 2016, 57, 46-51.	1.2	16
22	Preparation of Cobalt-Antimony Thermoelectric Film using Pulse Electrolysis in Ethylene Glycol-CoCl₂-SbCl₃ Non-Aqueous Solution. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 40-45.	0.2	2
23	Calculating entropies of alkaline earth metal molybdates. Monatshefte FÃ¼r Chemie, 2016, 147, 263-267.	1.8	12
24	The Third Law Entropy of Strontium Molybdates. Materials Transactions, 2015, 56, 545-549.	1.2	17
25	Thermoelectric Conversion Films of Fe-Al Binary System prepared by Electrodeposition in AlCl₃-NaCl-KCl-FeCl₂ Quaternary Molten Salts. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2015, 66, 521-526.	0.2	1
26	Thermodynamic properties of molybdate ion: reaction cycles and experiments. Pure and Applied Chemistry, 2015, 87, 461-476.	1.9	16
27	Standard Gibbs Energies of Formation of the Ferro- and Paramagnetic Phases of AlNd₃. Journal of Physical Chemistry C, 2012, 116, 20489-20495.	3.1	14
28	The Tungsten Carbide Involving the Nano Metal Cobalt Domains Synthesized by Carburizing the Cobalt Supersaturated-Tungsten Powder with CO Gas. Journal of the American Ceramic Society, 2012, 95, 3797-3801.	3.8	1
29	Calorimetric study of AlNd2: Heat capacity. Standard Gibbs energy of formation. Thermochimica Acta, 2011, 526, 90-98.	2.7	16
30	Determination of Gibbs Energy of Formation of Molybdenum-Boron Binary System by Electromotive Force Measurement Using Solid Electrolyte. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 114-120.	2.1	5
31	Re-evaluation of activities of magnesium and zinc components in the magnesiumâ€"zinc binary system from very low to high temperature. International Journal of Materials Research, 2011, 102, 128-133.	0.3	4
32	Relative Partial Molar Gibbs Energy of Magnesium Component Substituted into Zinc Site in the Mg-Zn Binary Compounds. Materials Transactions, 2010, 51, 1705-1708.	1.2	10
33	Formation energies of the intermetallic compounds at the ground and thermally excited states determined by the ab initio energetic calculation and calorimetric measurement. International Journal of Quantum Chemistry, 2009, 109, 2695-2705.	2.0	12
34	Temperature dependence of standard Gibbs energy of formation of Al2Nd from near absolute 0K to room temperature. Journal of Alloys and Compounds, 2008, 456, 40-45.	5.5	1
35	Standard Gibbs energy of formation of MgLa determined by solution calorimetry and heat capacity measurement from near absolute zero kelvin. Journal of Alloys and Compounds, 2008, 458, 41-46.	5.5	10
36	Thermal Spectroscopy of Magnesiumâ€“Zinc Binary Compounds Near Absolute Zero Kelvin: Coefficient of the Electronic Contribution to Heat Capacity and Density of States in the Vicinity of the Fermi Level. Advances in Quantum Chemistry, 2008, , 1-12.	0.8	3

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37	Standard Gibbs Energy of Formation of Mg₃La Determined by Solution Calorimetry and Heat Capacity Measurement from Near Absolute Zero Kelvin. Materials Transactions, 2007, 48, 2159-2164.	1.2	13
38	Thermodynamic Properties of AlNd Determined by Low Temperature Heat Capacity Measurements. Materials Transactions, 2007, 48, 1961-1964.	1.2	0
39	Heat Capacity of La_{1−<I>X</I>}Sr<I>_X</I>FeO<SUB>3− from 2 K to 1340 K. Materials Transactions, 2007, 48, 3109-3117.		
40	Determination of standard entropy of formation of Al11Nd3 by heat capacity measurement from near absolute zero Kelvin. Journal of Alloys and Compounds, 2007, 433, 1-5.	5.5	4
41	Standard Gibbs energy of formation of Zn₁₇Y₂ and Zn₁₂Y determined by solution calorimetry and measurement of heat capacity from near zero Kelvin. International Journal of Materials Research, 2007, 98, 10-15.	0.3	6
42	Calcualated Phase Diagrams of the Ni-Mo-B and Ni-W-B Ternary Sysyems on the Basis of the Data Obtained by Thermodynamic Measurement of the Related Materials. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2006, 53, 419-429.	0.2	5
43	Preparation of White Heart Malleable Cast Iron in Na₂O-K₂O-SiO₂ Oxide Molten Salt. Materials Transactions, 2006, 47, 1878-1881.	1.2	1
44	Standard Gibbs Energy of Formation of Zn₈La Determined by Solution Calorimetry and Measurement of Heat Capacity from Near Absolute Zero Kelvin. Materials Transactions, 2006, 47, 1555-1559.	1.2	21
45	Determination of Standard Gibbs Energy of Formation of Al₂Nd by Solution Calorimetry and Heat Capacity Measurement from Near Absolute Zero Kelvin. Materials Transactions, 2006, 47, 2044-2048.	1.2	4
46	Thermodynamics of the formation of magnesiumâ€“zinc intermetallic compounds in the temperature range from absolute zero to high temperature. Acta Materialia, 2006, 54, 3151-3159.	7.9	48
47	Determination of gibbs energy of formation of Ni-B-O system by electromotive force measurement using solid electrolyte. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2006, 37, 607-613.	2.1	7
48	Thermodynamics of self-assembly of ions in the ITO solid solution. Microelectronic Engineering, 2005, 81, 382-388.	2.4	9
49	Standard entropy of formation of SnMg2 at 298K. Journal of Alloys and Compounds, 2005, 398, 12-15.	5.5	11
50	Direct Measurement of Relative Partial Molar Enthalpy of SiO₂ in SiO₂â€“M₂O (M=Li, Na, K, Cs) Binary and SiO₂â€“CaOâ€“Al₂O₃ Ternary Melts. Journal of the American Ceramic Society, 2004, 87, 1550-1555.	3.8	27
51	Standard gibbs energy of formation of Mg48Zn52 determined by solution calorimetry and measurement of heat capacity from near absolute zero kelvin. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 891-895.	2.1	43
52	Calorimetric study of Zn₁₃La. International Journal of Materials Research, 2004, 95, 708-712.	0.8	28
53	Determination of standard gibbs energies of formation of Fe2Mo3O12, Fe2Mo3O8, Fe2MoO4, and FeMoO4 of the Fe-Mo-O ternary system and Î¼ phase of the Fe-Mo binary system by electromotive force measurement using a Y2O3-stabilized ZrO2 solid electrolyte. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 653-659.	2.1	21
54	Calorimetric Study of Nickel Molybdate: Heat Capacity, Enthalpy, and Gibbs Energy of Formation. Journal of the American Ceramic Society, 2003, 86, 1927-1932.	3.8	53

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55	Calorimetric study of MgZn₂and Mg₂Zn₁₁. International Journal of Materials Research, 2003, 94, 967-971.	0.8	42
56	Calculated phase diagram of the Niâ€“Moâ€“B ternary system. Journal of Alloys and Compounds, 2001, 314, 212-218.	5.5	35
57	Effect of Cu on the Corrosion Resistance of a NiMo₂B₂-Dispersed Ni-Based Alloy. Materials Transactions, JIM, 2000, 41, 1593-1598.	0.9	5
58	Effect of Cu Addition on the Corrosion Resistance of a Ni₃B-Dispersed Ni-Based Alloy in a HCl Aqueous Solution. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2000, 64, 207-212.	0.4	5
59	Effect of Cu on the Corrosion Resistance of a NiMo₂B₂-Dispersed Ni-Based Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1999, 63, 1255-1261.	0.4	5
60	Calculated Phase Diagram of the Ni–W–B Ternary System. Materials Transactions, JIM, 1999, 40, 600-605.	0.9	18
61	Design of Molten Salt Bath on the Basis of Acid-Base Cooperative Reaction Mechanism. Smooth Electrodeposition of Tungsten from KF-B₂O₃-WO₃ Molten Salt. Electrochemistry, 1999, 67, 677-683.	1.4	8
62	Electronic States of Oxygen Ions of Molten Slags Used for Iron and Steel Making. Advances in Quantum Chemistry, 1998, 29, 285-296.	0.8	2
63	Theoretical Study of Si <I>K</I>_β X-ray Fluorescence Spectrum of SiO₂–Na₂O Binary Slag by DV-Xα Molecular Orbital Calculation. Materials Transactions, JIM, 1997, 38, 724-730.	0.9	3
64	Improvement in the Corrosion Resistance of Zinc-plated Steel by Electrodeposition of Magnesium from a Molten Salt.. ISIJ International, 1996, 36, 714-719.	1.4	33
65	Electronic States of Oxygen Ions of Molten Slags Used for Iron and Steel Making.. ISIJ International, 1996, 36, 1259-1263.	1.4	4
66	Correlation between Viscosity and Bond Order Calculated from the Molecular Orbital Theory for Molten SiO₂. Materials Transactions, JIM, 1995, 36, 44-47.	0.9	4
67	Phase Diagram of LiCl-KCl-MgCl₂ Ternary System in Low MgCl₂ Composition. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1995, 59, 799-805.	0.4	3
68	Electronic States of Molten Chlorides of Alkali Metals, Magnesium and Zinc. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1994, 58, 276-282.	0.4	5
69	Molecular Orbital Calculation of Local Electronic States around Si Ions in Molten SiO₂. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1994, 58, 1156-1160.	0.4	4
70	Preparation of Rare Earth Oxide Dispersion Tungsten Powder by Spray Dry Method and It's Sintering.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1993, 40, 707-712.	0.2	1