

# Masao Morishita

## List of Publications by Year in descending order

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70  
papers

732  
citations

516710

16  
h-index

610901

24  
g-index

71  
all docs

71  
docs citations

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times ranked

282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calorimetric Study of Nickel Molybdate: Heat Capacity, Enthalpy, and Gibbs Energy of Formation. <i>Journal of the American Ceramic Society</i> , 2003, 86, 1927-1932.	3.8	53
2	Thermodynamics of the formation of magnesium-zinc intermetallic compounds in the temperature range from absolute zero to high temperature. <i>Acta Materialia</i> , 2006, 54, 3151-3159.	7.9	48
3	Standard gibbs energy of formation of Mg <sub>48</sub> Zn <sub>52</sub> determined by solution calorimetry and measurement of heat capacity from near absolute zero kelvin. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2004, 35, 891-895.	2.1	43
4	Calorimetric study of MgZn <sub>2</sub> and Mg <sub>2</sub> Zn <sub>11</sub> . <i>International Journal of Materials Research</i> , 2003, 94, 967-971.	0.8	42
5	Calculated phase diagram of the Ni-Mo-B ternary system. <i>Journal of Alloys and Compounds</i> , 2001, 314, 212-218.	5.5	35
6	Improvement in the Corrosion Resistance of Zinc-plated Steel by Electrodeposition of Magnesium from a Molten Salt. <i>ISIJ International</i> , 1996, 36, 714-719.	1.4	33
7	Calorimetric study of Zn <sub>13</sub> La. <i>International Journal of Materials Research</i> , 2004, 95, 708-712.	0.8	28
8	Direct Measurement of Relative Partial Molar Enthalpy of SiO <sub>2</sub> in SiO <sub>2</sub> -M <sub>2</sub> O (M=Li, Na, K, Cs) Binary and SiO <sub>2</sub> -CaO-Al <sub>2</sub> O <sub>3</sub> Ternary Melts. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1550-1555.	3.8	27
9	Determination of standard gibbs energies of formation of Fe <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub> , Fe <sub>2</sub> Mo <sub>3</sub> O <sub>8</sub> , Fe <sub>2</sub> MoO <sub>4</sub> , and FeMoO <sub>4</sub> of the Fe-Mo-O ternary system and 1/4 phase of the Fe-Mo binary system by electromotive force measurement using a Y <sub>2</sub> O <sub>3</sub> -stabilized ZrO <sub>2</sub> solid electrolyte. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2003, 34, 653-659.	2.1	21
10	Standard Gibbs Energy of Formation of Zn <sub>8</sub> La Determined by Solution Calorimetry and Measurement of Heat Capacity from Near Absolute Zero Kelvin. <i>Materials Transactions</i> , 2006, 47, 1555-1559.	1.2	21
11	Thermodynamic properties for calcium molybdate, molybdenum tri-oxide and aqueous molybdate ion. <i>Journal of Chemical Thermodynamics</i> , 2017, 114, 30-43.	2.0	19
12	Calculated Phase Diagram of the Ni-W-B Ternary System. <i>Materials Transactions, JIM</i> , 1999, 40, 600-605.	0.9	18
13	The Third Law Entropy of Strontium Molybdates. <i>Materials Transactions</i> , 2015, 56, 545-549.	1.2	17
14	Calorimetric study of AlNd <sub>2</sub> : Heat capacity. Standard Gibbs energy of formation. <i>Thermochimica Acta</i> , 2011, 526, 90-98.	2.7	16
15	Thermodynamic properties of molybdate ion: reaction cycles and experiments. <i>Pure and Applied Chemistry</i> , 2015, 87, 461-476.	1.9	16
16	Third Law Entropy of Barium Molybdate. <i>Materials Transactions</i> , 2016, 57, 46-51.	1.2	16
17	Standard Gibbs Energies of Formation of the Ferro- and Paramagnetic Phases of AlNd <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 20489-20495.	3.1	14
18	Standard Gibbs Energy of Formation of Mg <sub>3</sub> La Determined by Solution Calorimetry and Heat Capacity Measurement from Near Absolute Zero Kelvin. <i>Materials Transactions</i> , 2007, 48, 2159-2164.	1.2	13

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19	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
20	Calculating entropies of alkaline earth metal molybdates. Monatshefte für Chemie, 2016, 147, 263-267.	1.8	12
21	Hydrogen Generation from Ammonia Borane over Ru/Nanoporous CeO <sub>2</sub> Catalysts Prepared from Amorphous Alloys. Materials Transactions, 2019, 60, 845-848.	1.2	12
22	Standard entropy of formation of SnMg <sub>2</sub> at 298K. Journal of Alloys and Compounds, 2005, 398, 12-15.	5.5	11
23	Third Law Entropy of Silver Molybdate. Materials Transactions, 2017, 58, 868-872.	1.2	11
24	Thermodynamic properties for MMoO <sub>4</sub> (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
25	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
26	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
27	Thermodynamics of self-assembly of ions in the ITO solid solution. Microelectronic Engineering, 2005, 81, 382-388.	2.4	9
28	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
29	Heat Capacity of La <sub>1-x</sub> Y <sub>x</sub> FeO <sub>3</sub> from 2 K to 1340 K. Materials Transactions, 2007, 48, 3109-3117.	3.8	8
30	Design of Molten Salt Bath on the Basis of Acid-Base Cooperative Reaction Mechanism. Smooth Electrodeposition of Tungsten from KF-B <sub>2</sub> O <sub>3</sub> -WO <sub>3</sub> Molten Salt. Electrochemistry, 1999, 67, 677-683.	1.4	8
31	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
32	Thermodynamic properties for Sm <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> determined by calorimetric measurement and re-evaluation of heat capacities for elemental molybdenum: standard entropy, Néel temperature, solubility product. Monatshefte für Chemie, 2018, 149, 341-356.	1.8	7
33	Calorimetric study of Nd <sub>2</sub> Fe <sub>14</sub> B: Heat capacity, standard Gibbs energy of formation and magnetic entropy. Thermochimica Acta, 2020, 690, 178672.	2.7	7
34	Standard Gibbs energy of formation of Zn <sub>17</sub> Y <sub>2</sub> and Zn <sub>12</sub> Y 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
35	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
36	Effect of Cu on the Corrosion Resistance of a NiMo <sub>2</sub> B <sub>2</sub> -Dispersed Ni-Based Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1999, 63, 1255-1261.	0.4	5

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37	Effect of Cu on the Corrosion Resistance of a Ni-Mo-B-Dispersed Ni-Based Alloy. <i>Materials Transactions, JIM</i> , 2000, 41, 1593-1598.	0.9	5
38	Calculated Phase Diagrams of the Ni-Mo-B and Ni-W-B Ternary Systems on the Basis of the Data Obtained by Thermodynamic Measurement of the Related Materials. <i>Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2006, 53, 419-429.	0.2	5
39	Determination of Gibbs Energy of Formation of Molybdenum-Boron Binary System by Electromotive Force Measurement Using Solid Electrolyte. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011, 42, 114-120.	2.1	5
40	Thermodynamic Properties for Nd <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> Formed in the Nuclear Fuel Waste Glasses. <i>Materials Transactions</i> , 2019, 60, 111-120.	1.2	5
41	Preparation of Nanoporous CeO <sub>2</sub> Catalyst Supports by Chemical Treatment of Amorphous Alloys and Investigation of Ni/CeO <sub>2</sub> Catalytic Activity. <i>Materials Transactions</i> , 2019, 60, 1964-1967.	1.2	5
42	Catalytic activity of Co-nanocrystal-doped tungsten carbide arising from an internal magnetic field. <i>RSC Advances</i> , 2021, 11, 14063-14070.	3.6	5
43	Effect of Cu Addition on the Corrosion Resistance of a Ni <sub>3</sub> B-Dispersed Ni-Based Alloy in a HCl Aqueous Solution. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2000, 64, 207-212.	0.4	5
44	Correlation between Viscosity and Bond Order Calculated from the Molecular Orbital Theory for Molten SiO <sub>2</sub> . <i>Materials Transactions, JIM</i> , 1995, 36, 44-47.	0.9	4
45	Determination of Standard Gibbs Energy of Formation of Al <sub>2</sub> Nd by Solution Calorimetry and Heat Capacity Measurement from Near Absolute Zero Kelvin. <i>Materials Transactions</i> , 2006, 47, 2044-2048.	1.2	4
46	Determination of standard entropy of formation of Al <sub>11</sub> Nd <sub>3</sub> by heat capacity measurement from near absolute zero Kelvin. <i>Journal of Alloys and Compounds</i> , 2007, 433, 1-5.	5.5	4
47	Re-evaluation of activities of magnesium and zinc components in the magnesium-zinc binary system from very low to high temperature. <i>International Journal of Materials Research</i> , 2011, 102, 128-133.	0.3	4
48	Determination of Gibbs Energy of Mixing of Tungsten-Boron Binary System by Electromotive Force Measurement Using Solid Electrolyte. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 1703-1714.	2.1	4
49	Thermodynamic Properties for Nd <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> Formed in the Nuclear Fuel Waste Glasses. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2017, 81, 485-493.	0.4	4
50	Molecular Orbital Calculation of Local Electronic States around Si Ions in Molten SiO <sub>2</sub> . <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1994, 58, 1156-1160.	0.4	4
51	Electronic States of Oxygen Ions of Molten Slags Used for Iron and Steel Making.. <i>ISIJ International</i> , 1996, 36, 1259-1263.	1.4	4
52	Phase Diagram of LiCl-KCl-MgCl <sub>2</sub> Ternary System in Low MgCl <sub>2</sub> Composition. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1995, 59, 799-805.	0.4	3
53	Theoretical Study of Si $\beta$ -X-ray Fluorescence Spectrum of SiO <sub>2</sub> -Na <sub>2</sub> O Binary Slag by DV-X $\alpha$ ; Molecular Orbital Calculation. <i>Materials Transactions, JIM</i> , 1997, 38, 724-730.	0.9	3
54	Thermal Spectroscopy of Magnesium-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. <i>Advances in Quantum Chemistry</i> , 2008, , 1-12.	0.8	3

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55	Determination of Gibbs Energies of Formation of $\text{Cr}_3\text{B}_4$ , $\text{Cr}_2\text{B}_4$ , and $\text{Cr}_4\text{B}_4$ by Electromotive Force Measurement Using Solid Electrolyte. <i>Materials Transactions</i> , 2020, 61, 2357-2362.	1.2	3
56	Electronic States of Oxygen Ions of Molten Slags Used for Iron and Steel Making. <i>Advances in Quantum Chemistry</i> , 1998, 29, 285-296.	0.8	2
57	Preparation of Cobalt-Antimony Thermoelectric Film using Pulse Electrolysis in Ethylene Glycol- $\text{CoCl}_2$ - $\text{SbCl}_3$ Non-Aqueous Solution. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2016, 67, 40-45.	0.2	2
58	Efficient Hydrogen Generation from Ammonia Borane over Ru-Fe/porous $\text{CeO}_2$ Induced by Intrinsic Charge State and Self-organized Microstructure. <i>ISIJ International</i> , 2021, 61, 1037-1042.	1.4	2
59	Preparation of Rare Earth Oxide Dispersion Tungsten Powder by Spray Dry Method and It's Sintering.. <i>Funtai Oyobi Fumatsu Yakini/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1993, 40, 707-712.	0.2	1
60	Preparation of White Heart Malleable Cast Iron in $\text{Na}_2\text{O}-\text{K}_2\text{O}-\text{SiO}_2$ Oxide Molten Salt. <i>Materials Transactions</i> , 2006, 47, 1878-1881.	1.2	1
61	Temperature dependence of standard Gibbs energy of formation of $\text{Al}_2\text{Nd}$ from near absolute 0K to room temperature. <i>Journal of Alloys and Compounds</i> , 2008, 456, 40-45.	5.5	1
62	The Tungsten Carbide Involving the Nano Metal Cobalt Domains Synthesized by Carburizing the Cobalt Supersaturated-Tungsten Powder with CO Gas. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3797-3801.	3.8	1
63	Thermoelectric Conversion Films of Fe-Al Binary System prepared by Electrodeposition in $\text{AlCl}_3$ - $\text{NaCl}$ - $\text{KCl}$ - $\text{FeCl}_2$ Quaternary Molten Salts. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2015, 66, 521-526.	0.2	1
64	Composition-Oxygen Partial Pressure Diagram of the Cr-B-O Ternary System Based on the Standard Gibbs Energies of Formation of $\text{CrB}_4$ , $\text{CrB}_2$ , $\text{Cr}_3\text{B}_4$ , $\text{Cr}_5\text{B}_3$ and $\text{CrBO}_3$ Determined by Solid Electrolyte. <i>Materials Transactions</i> , 2021, 62, 821-828.	1.2	1
65	Pd-Dispersed $\text{CeO}_2$ Catalyst Prepared from Dealloying the Pd-Ce-Al Ternary Amorphous Alloy Used for Oxidation Reaction. <i>Materials Transactions</i> , 2020, 61, 1848-1852.	1.2	1
66	Thermodynamic Properties of $\text{AlNd}$ Determined by Low Temperature Heat Capacity Measurements. <i>Materials Transactions</i> , 2007, 48, 1961-1964.	1.2	0
67	Hydrogen Generation from Ammonia-Borane over Ni-B Amorphous Alloys Prepared from Aqueous Solution Based on Thermodynamic Prediction of Hidden Metastable of State. <i>Materials Transactions</i> , 2021, 62, 1368-1375.	1.2	0
68	Thermodynamic properties of cerium molybdate. <i>International Journal of Materials Research</i> , 2019, 110, 715-725.	0.3	0
69	Development of a Prototype Thermodynamic Database for Nd-Fe-B Permanent Magnets. <i>Funtai Oyobi Fumatsu Yakini/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2022, 69, S52-S62.	0.2	0
70	Calorimetric study of $\text{Zn}_{13}\text{La}$ . <i>International Journal of Materials Research</i> , 2022, 95, 708-712.	0.3	0