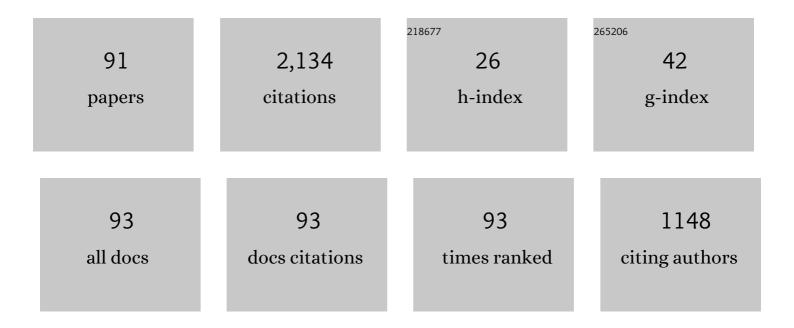
Takahiro Miki

List of Publications by Year in descending order

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Τλκλμιρο Μικι

#	Article	IF	CITATIONS
1	Thermodynamic criteria of alloying elements elimination during recycling end-of-life zinc-based products by remelting. Resources, Conservation and Recycling, 2022, 176, 105913.	10.8	6
2	Aluminum Deoxidation Equilibrium in Molten Fe–Co Alloys. ISIJ International, 2022, 62, 12-19.	1.4	0
3	Sustainable phosphorus supply by phosphorus recovery from steelmaking slag: a critical review. Resources, Conservation and Recycling, 2022, 180, 106203.	10.8	40
4	Simultaneous Reduction of P2O5 and FeO from CaO–SiO2–FeO–P2O5 Synthesized Slag by Carbothermic Reduction. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1806-1815.	2.1	5
5	Phosphorous Recovery from Ca2SiO4–Ca3P2O8 Solid Solution By Carbothermic Reduction. Journal of Sustainable Metallurgy, 2021, 7, 459-469.	2.3	7
6	A composite adsorbent of ZnS nanoclusters grown in zeolite NaA synthesized from fly ash with a high mercury ion removal efficiency in solution. Journal of Hazardous Materials, 2021, 411, 125044.	12.4	29
7	Immobilization persistence of Cu, Cr, Pb, Zn ions by the addition of steel slag in acidic contaminated mine soil. Journal of Hazardous Materials, 2021, 412, 125176.	12.4	42
8	Experimental Measurements and Numerical Analysis of Al Deoxidation Equilibrium of Molten Fe–Cr–Ni Alloy. ISIJ International, 2021, 61, 2331-2339.	1.4	2
9	Thermodynamics of Solid and Liquid MnS–CrS–FeS Phase in Equilibrium with Molten Fe–Cr–Mn–S Alloy. ISIJ International, 2021, 61, 2360-2369.	1.4	1
10	Thermodynamics of Molten MnS–FeS and CrS–FeS System at 1843 K. ISIJ International, 2021, 61, 2345-2354	4.1.4	6
11	Thermodynamics of Molten MnS–CrS–FeS System at 1843 K. ISIJ International, 2021, 61, 2355-2359.	1.4	3
12	Hydrogen solubility and removal by vacuum treatment for molten AC2B aluminum alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2021, 71, 44-50.	0.4	0
13	Effect of basic oxygen furnace slag on succession of the bacterial community and immobilization of various metal ions in acidic contaminated mine soil. Journal of Hazardous Materials, 2020, 388, 121784.	12.4	22
14	Crystallography of the High-Temperature Ca2SiO4-Ca3P2O8 Solid Solutions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 3007-3015.	2.1	8
15	Morphology and Composition of Inclusions in Si–Mn Deoxidized Steel at the Solid-Liquid Equilibrium Temperature. ISIJ International, 2020, 60, 84-91.	1.4	11
16	Effect of modified basic oxygen furnace slag on the controlled release of nitrate nitrogen and the functional microbial community in soil. Journal of Environmental Management, 2020, 261, 110191.	7.8	2
17	Influence of Atmosphere and Basicity on Softening and Melting Behaviors of the CaO–FeO–SiO ₂ –Al ₂ O ₃ –MgO System. ISIJ International, 2020, 6 1380-1388.	0,1.4	7
18	Dissolution Behavior of SiO ₂ into Molten CaO–FeO Phase. ISIJ International, 2020, 60, 1434-1437.	1.4	2

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19	MnS Precipitation Behavior in MnO–SiO ₂ Inclusion in Fe–Mn–Si–O–S Alloy System at Solid-Liquid Coexistence Temperature. ISIJ International, 2020, 60, 1610-1616.	1.4	8
20	Thermodynamic criteria of the end-of-life silicon wafers refining for closing the recycling loop of photovoltaic panels. Science and Technology of Advanced Materials, 2019, 20, 813-825.	6.1	15
21	Competitive mechanism and influencing factors for the simultaneous removal of Cr(III) and Zn(II) in acidic aqueous solutions using steel slag: Batch and column experiments. Journal of Cleaner Production, 2019, 230, 69-79.	9.3	31
22	Thermodynamics of Elements in Dilute Silicon Melts. Jom, 2019, 71, 1456-1470.	1.9	5
23	Determination of Interaction Parameters between Elements in Molten Iron by Evaporation and Chemical Equilibration Techniques. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 344-352.	0.4	3
24	The stability of the compounds formed in the process of removal Pb(II), Cu(II) and Cd(II) by steelmaking slag in an acidic aqueous solution. Journal of Environmental Management, 2019, 231, 41-48.	7.8	49
25	Green synthesis of zeolite 4A using fly ash fused with synergism of NaOH and Na2CO3. Journal of Cleaner Production, 2019, 212, 250-260.	9.3	105
26	Phosphorus Separation and Recovery from Steelmaking Slag. , 2019, , 329-337.		1
27	Thermodynamic evaluation of elemental distribution in a ferronickel electric furnace for the prospect of recycling pathway of nickel. Resources, Conservation and Recycling, 2018, 133, 362-368.	10.8	10
28	Activity coefficients of NiO and CoO in CaO–Al2O3–SiO2 slag and their application to the recycling of Ni–Co–Fe-based end-of-life superalloys via remelting. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 25-36.	4.9	11
29	Arsenic Removal from Contaminated Water Using the CaO–SiO2–FeO Glassy Phase in Steelmaking Slag. Journal of Sustainable Metallurgy, 2017, 3, 470-485.	2.3	7
30	Innovations in steelmaking technology and hidden phosphorus flows. Science of the Total Environment, 2016, 542, 1162-1168.	8.0	21
31	Effects of Al2O3 and MgO on Softening, Melting, and Permeation Properties of CaO-FeO-SiO2 on a Coke Bed. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2371-2377.	2.1	23
32	Enrichment of Phosphorus Oxide in Steelmaking Slag by Utilizing Capillary Action. Journal of Sustainable Metallurgy, 2016, 2, 38-43.	2.3	11
33	The selective alkaline leaching of zinc oxide from Electric Arc Furnace dust pre-treated with calcium oxide. Hydrometallurgy, 2016, 159, 120-125.	4.3	76
34	Hydrometallurgical extraction of zinc from CaO treated EAF dust in ammonium chloride solution. Journal of Hazardous Materials, 2016, 302, 90-96.	12.4	61
35	Bottlenecks in material cycle of nickel. Materiaux Et Techniques, 2016, 104, 604.	0.9	4

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37	Softening, Melting, and Permeation Phenomena of CaO–FeO–SiO ₂ Oxide on a Coke Bed. ISIJ International, 2015, 55, 2098-2104.	1.4	25
38	Separation of FeO and P ₂ O ₅ from Steelmaking Slag Utilizing Capillary Action. ISIJ International, 2015, 55, 142-148.	1.4	29
39	Reaction between Iron Oxide and Gangue Minerals at 1373 K under Ar Atmosphere. ISIJ International, 2015, 55, 1206-1209.	1.4	7
40	Stability of Cementite under CO–CO ₂ –H ₂ Gas Mixture at 1200 K. ISIJ International, 2015, 55, 409-412.	1.4	0
41	Thermodynamic Analysis for the Refining Ability of Salt Flux for Aluminum Recycling. Materials, 2014, 7, 5543-5553.	2.9	37
42	Decomposition Behavior of Fe3C under Ar Atmosphere. ISIJ International, 2014, 54, 29-31.	1.4	14
43	Simultaneous Material Flow Analysis of Nickel, Chromium, and Molybdenum Used in Alloy Steel by Means of Input–Output Analysis. Environmental Science & Technology, 2013, 47, 4653-4660.	10.0	79
44	Activity Measurement of FeO•Cr2O3 in â€~FeO•(Cr, Al)2O3' Solid Solution. ISIJ International, 2013, 53, 1161-1164.	1.4	1
45	Agenda for Low Reducing Agent Operation of Blast Furnace-Reduction and Melting Phenomena of Iron Ore Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2013, 99, 1-11.	0.4	23
46	Recovery of Molybdenum from Spent Lubricant. ISIJ International, 2012, 52, 1217-1224.	1.4	5
47	Recovery of Molybdenum from Spent Lubricant. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2012, 98, 39-47.	0.4	0
48	Recovery of Molybdenum from Copper Slags. ISIJ International, 2012, 52, 1211-1216.	1.4	10
49	Effect of Al2O3 Refractories on Oxygen Content of Molten Fe^ ^ndash;Cr Alloy. ISIJ International, 2012, 52, 2007-2012.	1.4	4
50	Thermodynamic Analysis for the Controllability of Elements in the Recycling Process of Metals. Environmental Science & Technology, 2011, 45, 4929-4936.	10.0	94
51	Phase Equilibrium between CaO·Al2O3 Saturated Molten CaO–Al2O3–MnO and (Ca, Mn)S Solid Solution. ISIJ International, 2011, 51, 2007-2011.	1.4	7
52	Investigation of Compositional Change of Inclusions in Martensitic Stainless Steel during Heat Treatment by Newly Developed Analysis Method. ISIJ International, 2011, 51, 1957-1966.	1.4	18
53	Effect of Fe3C on Carburization and Smelting Behavior of Reduced Iron in Blast Furnace. ISIJ International, 2011, 51, 1269-1273.	1.4	11
54	Prevention of Chromium Elution from Stainless Steel Slag into Seawater. ISIJ International, 2011, 51, 728-732.	1.4	36

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55	Prevention of Fluorine Elution from Electric Arc Furnace Reducing Slag into Water. ISIJ International, 2011, 51, 508-512.	1.4	2
56	Equilibrium between Ti and O in Molten Fe–Ni, Fe–Cr and Fe–Cr–Ni Alloys Equilibrated with â€~Ti3O5' Solid Solution. ISIJ International, 2011, 51, 566-572.	^M 1.4	16
57	Magnesium Deoxidation Equilibrium of Molten Fe–Cr–Ni Alloy Expressed by Quadratic Formalism and Redlich-Kister Type Polynomial. ISIJ International, 2011, 51, 895-900.	1.4	12
58	Thermodynamic Analysis of Contamination by Alloying Elements in Aluminum Recycling. Environmental Science & Technology, 2010, 44, 5594-5600.	10.0	125
59	Carburization Degree of Iron Nugget Produced by Rapid Heating of Powderly Iron, Iron Oxide in Slag and Carbon Mixture. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2009, 95, 821-826.	0.4	3
60	Prediction of Nonmetallic Inclusion Formation in Fe–40mass%Ni–5mass%Cr Alloy Production Process. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2009, 95, 827-836.	0.4	35
61	Evaluation Method of Metal Resource Recyclability Based on Thermodynamic Analysis. Materials Transactions, 2009, 50, 453-460.	1.2	41
62	Ti Deoxidation Equilibrium in Molten Fe–Cr and Fe–Cr–Ni Alloys at Temperatures between 1823 K and 1923 K. ISIJ International, 2009, 49, 1850-1859.	1.4	12
63	Ti Deoxidation Equilibrium in Molten Fe–Ni Alloys at Temperatures between 1823 to 1923 K. ISIJ International, 2009, 49, 804-808.	1.4	9
64	Carburization Degree of Iron Nugget Produced by Rapid Heating of Powdery Iron, Iron Oxide in Slag and Carbon Mixture. ISIJ International, 2008, 48, 1368-1372.	1.4	24
65	Temperature Dependence of Ti Deoxidation Equilibria of Liquid Iron in Coexistence with â€~Ti3O5' and Ti2O3. ISIJ International, 2008, 48, 729-738.	1.4	54
66	Magnesium Deoxidation Equilibrium of Molten Fe–Ni Alloy Expressed by Quadratic Formalism and Redlich–Kister Type Polynomial. ISIJ International, 2008, 48, 755-759.	1.4	14
67	Effect of Temperature on Oxygen Activity during Ladle Treatment. ISIJ International, 2008, 48, 438-445.	1.4	7
68	Aluminum Deoxidation Equilibrium of Molten Fe–Ni Alloy Coexisting with Alumina or Hercynite. ISIJ International, 2008, 48, 1533-1541.	1.4	23
69	Activity measurement of the constituents in molten Fe–B and Fe–B–C alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2006, 30, 449-454.	1.6	22
70	Identification of Titanium Oxide Phases Equilibrated with Liquid Fe-Ti Alloy Based on EBSD Analysis. ISIJ International, 2006, 46, 987-995.	1.4	48
71	Equilibrium between Titanium and Oxygen in Liquid Fe-Ti Alloy Coexisted with Titanium Oxides at 1873 K. ISIJ International, 2006, 46, 996-1005.	1.4	57
72	Behavior of Ironmaking Slag Permeation to Carbonaceous Material Layer. ISIJ International, 2006, 46, 1783-1790.	1.4	27

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73	Numerical Analysis on Si Deoxidation of Molten Fe, Ni, Fe-Ni, Fe-Cr, Fe-Cr-Ni, Ni-Cu and Ni-Co Alloys by Quadratic Formalism. ISIJ International, 2005, 45, 1848-1855.	1.4	36
74	Dissolution Behavior of Nutrition Elements from Steelmaking Slag into Seawater. ISIJ International, 2004, 44, 753-761.	1.4	74
75	Dissolution Behavior of Environmentally Regulated Elements from Steelmaking Slag into Seawater. ISIJ International, 2004, 44, 762-769.	1.4	28
76	Kinetic Analysis of Iron Carburizaiton during Smelting Reduciton. ISIJ International, 2004, 44, 2033-2039.	1.4	38
77	Numerical Analysis on Si Deoxidation of Molten Fe-Ni and Ni-Co Alloys by Quadratic Formalism. ISIJ International, 2004, 44, 1800-1809.	1.4	29
78	Elution Mechanism of Fluorine from Steelmaking Slag into Seawater. ISIJ International, 2004, 44, 935-939.	1.4	11
79	Numerical Analysis on Si Deoxidation of Molten Ni and Ni-Cu Alloy by Quadratic Formalism. Materials Transactions, 2003, 44, 1817-1823.	1.2	20
80	Consideration of Dissolution Behavior of Elements in Steelmaking Slag Based on Their Stability Diagram in Seawater. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2003, 89, 388-392.	0.4	20
81	Dissolution Behavior of Elements in Steelmaking Slag into Artificial Seawater. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2003, 89, 382-387.	0.4	22
82	Activity Measurement of the Constituents in Molten Sn-Mg-Zn Ternary Lead Free Solder Alloys by Mass Spectrometry. Materials Transactions, 2002, 43, 3227-3233.	1.2	9
83	Removal of Iron and Titanium in Poly-Crystalline Silicon by Acid Leaching. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2002, 66, 459-465.	0.4	24
84	Activity Measurement of the Constituents in Molten Ag-In-Sn Ternary Alloy by Mass Spectrometry. Materials Transactions, 2001, 42, 732-738.	1.2	17
85	Activity Measurement of CaO-SiO2-AlO1.5-MgO Slags Equilibrated with Molten Silicon Alloys ISIJ International, 2000, 40, 561-566.	1.4	40
86	Thermodynamic Properties of Si–Al, –Ca, –Mg Binary and Si–Ca–Al, –Ti, –Fe Ternary Alloys. Materials Transactions, JIM, 1999, 40, 1108-1116.	0.9	25
87	Measurements of Thermodynamic Properties of Iron in Molten Silicon by Knudsen Effusion Method Journal of the Mass Spectrometry Society of Japan, 1999, 47, 72-75.	0.1	9
88	Thermodynamic properties of aluminum, magnesium, and calcium in molten silicon. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1998, 29, 1043-1049.	2.1	41
89	Thermodynamic properties of titanium and iron in molten silicon. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1997, 28, 861-867.	2.1	37
90	Thermodynamics of phosphorus in molten silicon. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1996, 27, 937-941.	2.1	88

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91	Composition and Morphological Analysis of MnO–SiO ₂ –Al ₂ O ₃ Inclusions during Solidification of Steel. Steel Research International, 0, , 2200285.	1.8	1