

Jinichiro Nakano

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

614
citations

687363

13
h-index

794594

19
g-index

34
all docs

34
docs citations

34
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of the thermodynamic parameters of the hcp phase on the stacking fault energy calculations in the Fe-Mn and Fe-Mn-C systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2010, 34, 167-175.	1.6	124
2	A crystallographically consistent optimization of the Zn-Fe system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2005, 29, 276-288.	1.6	66
3	Interactions of refractory materials with molten gasifier slags. International Journal of Hydrogen Energy, 2011, 36, 4595-4604.	7.1	62
4	A full thermodynamic optimization of the Zn-Fe-Al system within the 420-500°C temperature range. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 125-140.	1.6	54
5	Phase Equilibria in Synthetic Coal-Petcoke Slags (Al ₂ O ₃ -CaO-FeO-SiO ₂ -V ₂ O ₃) under Simulated Gasification Conditions. Energy & Fuels, 2011, 25, 3298-3306.	5.1	44
6	Crystallization of Synthetic Coal-Petcoke Slag Mixtures Simulating Those Encountered in Entrained Bed Slagging Gasifiers. Energy & Fuels, 2009, 23, 4723-4733.	5.1	42
7	Confocal Scanning Laser Microscopy Studies of Crystal Growth During Oxidation of a Liquid FeO-CaO-SiO ₂ Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 471-476.	2.1	38
8	Trace element partitioning behavior of coal gangue-fired CFB plant: experimental and equilibrium calculation. Environmental Science and Pollution Research, 2015, 22, 15469-15478.	5.3	29
9	Pyrite transformation and sulfur dioxide release during calcination of coal gangue. RSC Advances, 2014, 4, 42506-42513.	3.6	27
10	Achieving waste to energy through sewage sludge gasification using hot slags: syngas production. Scientific Reports, 2015, 5, 11436.	3.3	27
11	Thermodynamic effects of calcium and iron oxides on crystal phase formation in synthetic gasifier slags containing from 0 to 27 wt.% V ₂ O ₃ . Fuel, 2015, 161, 364-375.	6.4	26
12	CO ₂ and H ₂ O gas conversion into CO and H ₂ using highly exothermic reactions induced by mixed industrial slags. International Journal of Hydrogen Energy, 2014, 39, 4954-4958.	7.1	21
13	The Effect of Alloy Solidification Path on Sulfide Formation in Fe-Cr-Ni Alloys. ISIJ International, 2009, 49, 355-364.	1.4	15
14	A thermo-mechanical correlation with driving forces for hcp martensite and twin formations in the Fe-Mn-C system exhibiting multicomposition sets. Science and Technology of Advanced Materials, 2013, 14, 014207.	6.1	13
15	Failure mechanisms in Pt-Rh thermocouple sensors caused by gaseous phosphorous species. Corrosion Science, 2016, 103, 30-41.	6.6	8
16	Synchrotron-based X-ray absorption spectroscopy study of vanadium redox speciation during petroleum coke combustion and gasification. Fuel, 2018, 227, 279-288.	6.4	8
17	Viscosity Determination of Molten Ash from Low-Grade US Coals. High Temperature Materials and Processes, 2012, 31, 569-580.	1.4	5
18	Modeling of the dynamics of transient liquid films in ternary systems. Journal of Phase Equilibria and Diffusion, 2006, 27, 699-706.	1.4	1

#	ARTICLE	IF	CITATIONS
19	Gaseous Fuel Production Using Waste Slags - Going Beyond Heat Recovery. , 2016, , 627-633.		1
20	Potential CO2 Emission Reduction and H2 Production Using Industrial Slag Wastes Originating from Different Industrial Sectors. Minerals, Metals and Materials Series, 2017, , 51-60.	0.4	1
21	Energy Generation from Waste Slags: Beyond Heat Recovery. , 2016, , 131-136.		0
22	A Thermodynamic Study of Mixed Carbon Feedstock Gasification Slags. , 2015, , 5-14.		0
23	Vanadium Oxidation State Determination by X-Ray Absorption Spectroscopy. , 2016, , 1405-1412.		0
24	A High Temperature Double Knudsen Cell Mass Spectrometry Study of Gas Species Evolved From Coalpetcoke Mixed Feedstock Slags. , 2016, , 1119-1125.		0
25	Understanding Phase Equilibria in Slags Containing Vanadium. , 2016, , 1397-1403.		0
26	The Influence of Phosphorous Additions on Phase Evolution in Molten Synthetic Coal Slag. Minerals, Metals and Materials Series, 2017, , 221-229.	0.4	0