

Kyung-woo Yi

List of Publications by Citations

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59
papers

784
citations

14
h-index

26
g-index

62
ext. papers

920
ext. citations

3.4
avg, IF

4.05
L-index

#	Paper	IF	Citations
59	One-dimensional heat conduction model for an electrical phase change random access memory device with an 8F2 memory cell ($F=0.15$ h). <i>Journal of Applied Physics</i> , 2003 , 94, 3536-3542	2.5	130
58	The role of grain boundaries in the initial oxidation behavior of austenitic stainless steel containing alloyed Cu at 700°C for advanced thermal power plant applications. <i>Corrosion Science</i> , 2015 , 96, 52-66	6.8	56
57	Numerical Calculation of Circulation Flow Rate in the Degassing Rheinstahl-Heraeus Process.. <i>ISIJ International</i> , 2000 , 40, 749-755	1.7	56
56	The Effect of Operating Parameters and Dimensions of the RH System on Melt Circulation Using Numerical Calculations.. <i>ISIJ International</i> , 2001 , 41, 403-409	1.7	44
55	Molecularly Tailored Lithium-Arene Complex Enables Chemical Prelithiation of High-Capacity Lithium-Ion Battery Anodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14473-14480	16.4	40
54	A New Numerical Model for Predicting Carbon Concentration during RH Degassing Treatment. <i>ISIJ International</i> , 2003 , 43, 1403-1409	1.7	40
53	Grain-Size Effects on the High-Temperature Oxidation of Modified 304 Austenitic Stainless Steel. <i>Oxidation of Metals</i> , 2013 , 79, 239-247	1.6	39
52	The morphology of AlTiO complex oxide inclusions formed in an ultra low-carbon steel melt during the RH process. <i>Metals and Materials International</i> , 2007 , 13, 249-255	2.4	36
51	Investigation into the high temperature oxidation of Cu-bearing austenitic stainless steel using simultaneous electron backscatter diffraction-energy dispersive spectroscopy analysis. <i>Corrosion Science</i> , 2013 , 77, 397-402	6.8	25
50	Structure of temperature and velocity fields in the Si melt of a Czochralski crystal growth system. <i>Journal of Crystal Growth</i> , 1995 , 156, 383-392	1.6	24
49	Measurement of the 2-Dimensional Fractal Dimensions of Alumina Clusters Formed in an Ultra Low Carbon Steel Melt during RH Process. <i>ISIJ International</i> , 2007 , 47, 1070-1072	1.7	17
48	The effect of crystal rotation direction on the thermal and velocity fields of a Czochralski system with a low Prandtl number melt. <i>Journal of Crystal Growth</i> , 2006 , 292, 272-281	1.6	17
47	Experimental study on the effect of crystal and crucible rotations on the thermal and velocity field in a low Prandtl number melt in a large crucible. <i>Journal of Crystal Growth</i> , 2005 , 275, e249-e257	1.6	17
46	The influence of crucible and crystal rotation on the sapphire single crystal growth interface shape in a resistance heated Czochralski system. <i>Journal of Crystal Growth</i> , 2014 , 385, 22-27	1.6	15
45	Si/iron silicide nanocomposite anodes with furfuryl-alcohol-derived carbon coating for Li-ion batteries. <i>Journal of Materials Science</i> , 2017 , 52, 5027-5037	4.3	13
44	Highly conducting fibrous carbon-coated silicon alloy anode for lithium ion batteries. <i>Applied Surface Science</i> , 2018 , 454, 277-283	6.7	13
43	3-D time-dependent numerical model of flow patterns within a large-scale Czochralski system. <i>Journal of Crystal Growth</i> , 2008 , 310, 2126-2133	1.6	12

42	Effects of Titanium and Oxygen Content on Microstructure in Low Carbon Steels. <i>Materials Transactions</i> , 2002 , 43, 518-522	1.3	12
41	Residence Time Distribution Analysis by the Modified Combined Model for the Design of Continuous Refining Vessel.. <i>ISIJ International</i> , 1999 , 39, 139-148	1.7	12
40	Controlled Molybdenum Disulfide Assembly inside Carbon Nanofiber by Boudouard Reaction Inspired Selective Carbon Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1605327	2.4	11
39	Porous nanocomposite anodes of silicon/iron silicide/3D carbon network for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 369-376	5.7	11
38	Gaseous Nanocarving-Mediated Carbon Framework with Spontaneous Metal Assembly for Structure-Tunable Metal/Carbon Nanofibers. <i>Advanced Materials</i> , 2017 , 29, 1702958	2.4	10
37	Fluid flow and mixing behavior in gas stirred ladle with submerged lance. <i>Metals and Materials International</i> , 2000 , 6, 461-466		10
36	Numerical simulation of the gallium nitride thin film layer grown on 6-inch wafer by commercial multi-wafer hydride vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2014 , 406, 53-58	1.6	9
35	A numerical simulation of the thickness of molten mold flux film in continuous casting. <i>Metals and Materials International</i> , 2007 , 13, 223-227	2.4	9
34	Synthesis of Spherical V-Nb-Mo-Ta-W High-Entropy Alloy Powder Using Hydrogen Embrittlement and Spheroidization by Thermal Plasma. <i>Metals</i> , 2019 , 9, 1296	2.3	9
33	Molecularly Tailored Lithium-Arene Complex Enables Chemical Preolithiation of High-Capacity Lithium-Ion Battery Anodes. <i>Angewandte Chemie</i> , 2020 , 132, 14581-14588	3.6	9
32	The effect of polycrystalline rod insertion in a low Prandtl number melt for continuous Czochralski system. <i>Journal of Crystal Growth</i> , 2010 , 312, 1458-1462	1.6	8
31	Numerical modeling and analysis of the thermal behavior of copper molds in continuous casting. <i>Metals and Materials International</i> , 2010 , 16, 281-288	2.4	7
30	Analysis of the origin of periodic oscillatory flow in the continuous casting mold. <i>Metals and Materials International</i> , 2015 , 21, 295-302	2.4	6
29	Development of a numerical model to predict areas of plume eye of ladle furnace process. <i>Metals and Materials International</i> , 2015 , 21, 511-520	2.4	6
28	Scale-Up Study of Molten Salt Electrolysis using Cu or Ag Cathode and Vacuum Distillation for the Production of High-Purity Mg Metal from MgO. <i>Journal of Sustainable Metallurgy</i> , 2021 , 7, 883-897	2.7	6
27	Numerical analysis on fluid flow and heat transfer in the smelting furnace of mitsubishi process for Cu refining. <i>Metals and Materials International</i> , 2016 , 22, 118-128	2.4	5
26	Crystal front shape control by use of an additional heater in a Czochralski sapphire single crystal growth system. <i>Journal of Crystal Growth</i> , 2017 , 474, 24-30	1.6	4
25	Numerical studies on up scaling of metal organic PACVD processes used for tribological coating in automotive industry. <i>Surface and Coatings Technology</i> , 2007 , 201, 7318-7326	4.4	4

24	Numerical studies on PACVD processes used for TiN multifunctional films using metal organic precursors. <i>Journal of Crystal Growth</i> , 2008 , 310, 1697-1702	1.6	4
23	Characteristics of thermal fluctuation in a low Pr number melt at a large crucible for Czochralski crystal growth method. <i>Journal of Crystal Growth</i> , 2005 , 275, e259-e264	1.6	4
22	Effects of Additional Bubbling on RH Vacuum Degassing Process with Water Model Experiment. <i>Journal of Korean Institute of Metals and Materials</i> , 2010 , 48, 424-429	1	4
21	Relationship Between Fluid Flow Stability and Submerged Entry Nozzle Port Angle in a Conventional Slab Continuous-Casting Mold. <i>Metals and Materials International</i> , 2020 , 27, 4168	2.4	4
20	Simulation of the thermal fluctuation according to the melt height in a CZ growth system. <i>Journal of Crystal Growth</i> , 2010 , 312, 1453-1457	1.6	3
19	Oxygen concentration inhomogeneity in the silicon melt of the czochralski single crystal growth system. <i>Metals and Materials International</i> , 1998 , 4, 89-94		3
18	Extension of Lance Life by Change of Height of Lances in the Smelting Furnace of Mitsubishi Process. <i>Metals and Materials International</i> , 2020 , 27, 3721	2.4	3
17	Numerical analysis on the origin of thickness unevenness and formation of pits at GaN thin film grown by HVPE. <i>Journal of Crystal Growth</i> , 2016 , 450, 66-73	1.6	3
16	Numerical analysis of impurity separation from waste salt by investigating the change of concentration at the interface during zone refining process. <i>Journal of Crystal Growth</i> , 2017 , 474, 69-75	1.6	2
15	Numerical Analysis on Crack Generation Behavior of Hypo Peritectic Steel in Continuous Casting Process. <i>Metals and Materials International</i> , 2020 , 1	2.4	2
14	Phase Transformation Modeling for Hypo Peritectic Steel in Continuous Cooling. <i>Metals and Materials International</i> , 2020 , 27, 2395	2.4	2
13	Improvement of Desulfurization Efficiency via Numerical Simulation Analysis of Transport Phenomena of Kanbara Reactor Process. <i>Metals and Materials International</i> , 1	2.4	2
12	Electrolysis of iron with oxygen gas evolution from molten sodium borate electrolytes. <i>Ironmaking and Steelmaking</i> , 1-8	1.3	2
11	Effects of the Ultrasound Treatment on Reaction Rates in the RH Processor Water Model System. <i>Metals and Materials International</i> , 2019 , 25, 238-247	2.4	1
10	Estimation of Temperature Rise During Ion Milling of Samples. <i>Microscopy and Microanalysis</i> , 2003 , 9, 796-797	0.5	1
9	Copper Penetration of a Lance in a Smelting Furnace of the Mitsubishi Process. <i>Metals and Materials International</i> , 1	2.4	1
8	Deoxidation of Off-Grade Titanium Sponge Using Magnesium Metal in Argon and Hydrogen Mixed Gas Atmosphere. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 220-231	2.5	0
7	Numerical simulation of hydrogen desorption from high-density metal hydride hydrogen storage vessels. <i>Metals and Materials International</i> , 2017 , 23, 764-769	2.4	

- 6 Fundamental Study of a Novel Electrolytic Process Using a Cu Cathode in MgF₂-LiF-KCl Molten Salt for Producing Mg Metal from MgO. *Minerals, Metals and Materials Series*, **2022**, 333-340 0.3
- 5 Development of Molten Salt Electrolysis of MgO Using a Metal Cathode and Vacuum Distillation to Produce Ultra-High Purity Mg Metal. *Minerals, Metals and Materials Series*, **2022**, 309-316 0.3
- 4 Prediction of the Shape of Molten Flux Film in Continuous Casting Process **2013**, 2907-2911
- 3 Inntitelbild: Molecularly Tailored Lithium-Arene Complex Enables Chemical Prelithiation of High-Capacity Lithium-Ion Battery Anodes (Angew. Chem. 34/2020). *Angewandte Chemie*, **2020**, 132, 14270-14270 3.6
- 2 Effects of Variation of Heat Flux Released from the Meniscus on the Surface Shape of the Solidified Shell During Continuous Casting. *Metals and Materials International*, **2020**, 1 2.4
- 1 Alleviation of high-temperature oxidation and cracking of water-cooled roll for hot-rolling steel. *Journal of Mechanical Science and Technology*, **2019**, 33, 5787-5796 1.6