Kyung-woo Yi

List of Publications by Year in descending order

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60	1,067	586496	488211
papers	citations	16 h-index	31 g-index

62	62	62	959
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Smart classification method to detect irregular nozzle spray patterns inside carbon black reactor using ensemble transfer learning. Journal of Intelligent Manufacturing, 2023, 34, 2729-2745.	4.4	1
2	Improvement of Desulfurization Efficiency via Numerical Simulation Analysis of Transport Phenomena of Kanbara Reactor Process. Metals and Materials International, 2022, 28, 1026-1037.	1.8	4
3	Deoxidation of Off-Grade Titanium Sponge Using Magnesium Metal in Argon and Hydrogen Mixed Gas Atmosphere. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 220-231.	1.0	6
4	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	1
5	A novel electrolytic process using a Cu cathode for the production of Mg metal from MgO. Journal of Applied Electrochemistry, 2022, 52, 1535-1549.	1.5	6
6	Phase Transformation Modeling for Hypo Peritectic Steel in Continuous Cooling. Metals and Materials International, 2021, 27, 2395.	1.8	3
7	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, 2021, 27, 5346-5359.	1.8	1
8	Relationship Between Fluid Flow Stability and Submerged Entry Nozzle Port Angle in a Conventional Slab Continuous-Casting Mold. Metals and Materials International, 2021, 27, 4168-4181.	1.8	11
9	Numerical Analysis on Crack Generation Behavior of Hypo Peritectic Steel in Continuous Casting Process. Metals and Materials International, 2021, 27, 4586-4600.	1.8	4
10	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. Journal of Sustainable Metallurgy, 2021, 7, 883-897.	1.1	14
11	Electrolysis of iron with oxygen gas evolution from molten sodium borate electrolytes. Ironmaking and Steelmaking, 2021, 48, 1030-1037.	1.1	4
12	Innentitelbild: Molecularly Tailored Lithiumâ€“Arene Complex Enables Chemical Prelithiation of Highâ€Capacity Lithiumâ€Ion Battery Anodes (Angew. Chem. 34/2020). Angewandte Chemie, 2020, 132, 14270-14270.	1.6	0
13	Extension of Lance Life by Change of Height of Lances in the Smelting Furnace of Mitsubishi Process. Metals and Materials International, 2020, 27, 3721.	1.8	3
14	Molecularly Tailored Lithiumâ€“Arene Complex Enables Chemical Prelithiation of Highâ€Capacity Lithiumâ€Ion Battery Anodes. Angewandte Chemie - International Edition, 2020, 59, 14473-14480.	7.2	127
15	Molecularly Tailored Lithiumâ€“Arene Complex Enables Chemical Prelithiation of Highâ€Capacity Lithiumâ€Ion Battery Anodes. Angewandte Chemie, 2020, 132, 14581-14588.	1.6	20
16	Effects of the Ultrasound Treatment on Reaction Rates in the RH Processor Water Model System. Metals and Materials International, 2019, 25, 238-247.	1.8	3
17	Porous nanocomposite anodes of silicon/iron silicide/3D carbon network for lithium-ion batteries. Journal of Alloys and Compounds, 2019, 770, 369-376.	2.8	16
18	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.	0.7	1

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19	Synthesis of Spherical V-Nb-Mo-Ta-W High-Entropy Alloy Powder Using Hydrogen Embrittlement and Spheroidization by Thermal Plasma. Metals, 2019, 9, 1296.	1.0	14
20	Highly conducting fibrous carbon-coated silicon alloy anode for lithium ion batteries. Applied Surface Science, 2018, 454, 277-283.	3.1	18
21	Numerical analysis of impurity separation from waste salt by investigating the change of concentration at the interface during zone refining process. Journal of Crystal Growth, 2017, 474, 69-75.	0.7	2
22	Controlled Molybdenum Disulfide Assembly inside Carbon Nanofiber by Boudouard Reaction Inspired Selective Carbon Oxidation. Advanced Materials, 2017, 29, 1605327.	11.1	14
23	Si/iron silicide nanocomposite anodes with furfuryl-alcohol-derived carbon coating for Li-ion batteries. Journal of Materials Science, 2017, 52, 5027-5037.	1.7	17
24	Crystal front shape control by use of an additional heater in a Czochralski sapphire single crystal growth system. Journal of Crystal Growth, 2017, 474, 24-30.	0.7	5
25	Numerical simulation of hydrogen desorption from high-density metal hydride hydrogen storage vessels. Metals and Materials International, 2017, 23, 764-769.	1.8	0
26	Gaseous Nanocarvingâ€Mediated Carbon Framework with Spontaneous Metal Assembly for Structureâ€Tunable Metal/Carbon Nanofibers. Advanced Materials, 2017, 29, 1702958.	11.1	13
27	Numerical analysis on fluid flow and heat transfer in the smelting furnace of mitsubishi process for Cu refining. Metals and Materials International, 2016, 22, 118-128.	1.8	5
28	Numerical analysis on the origin of thickness unevenness and formation of pits at GaN thin film grown by HVPE. Journal of Crystal Growth, 2016, 450, 66-73.	0.7	3
29	Development of a numerical model to predict areas of plume eye of ladle furnace process. Metals and Materials International, 2015, 21, 511-520.	1.8	10
30	The role of grain boundaries in the initial oxidation behavior of austenitic stainless steel containing alloyed Cu at 700Â°C for advanced thermal power plant applications. Corrosion Science, 2015, 96, 52-66.	3.0	85
31	Analysis of the origin of periodic oscillatory flow in the continuous casting mold. Metals and Materials International, 2015, 21, 295-302.	1.8	7
32	The influence of crucible and crystal rotation on the sapphire single crystal growth interface shape in a resistance heated Czochralski system. Journal of Crystal Growth, 2014, 385, 22-27.	0.7	18
33	Numerical simulation of the gallium nitride thin film layer grown on 6-inch wafer by commercial multi-wafer hydride vapor phase epitaxy. Journal of Crystal Growth, 2014, 406, 53-58.	0.7	11
34	Grain-Size Effects on the High-Temperature Oxidation of Modified 304 Austenitic Stainless Steel. Oxidation of Metals, 2013, 79, 239-247.	1.0	51
35	Investigation into the high temperature oxidation of Cu-bearing austenitic stainless steel using simultaneous electron backscatter diffraction-energy dispersive spectroscopy analysis. Corrosion Science, 2013, 77, 397-402.	3.0	28
36	Prediction of the Shape of Molten Flux Film in Continous Casting Process. , 2013, , 2907-2911.		0

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37	The effect of polycrystalline rod insertion in a low Prandtl number melt for continuous Czochralski system. Journal of Crystal Growth, 2010, 312, 1458-1462.	0.7	10
38	Numerical modeling and analysis of the thermal behavior of copper molds in continuous casting. Metals and Materials International, 2010, 16, 281-288.	1.8	9
39	Simulation of the thermal fluctuation according to the melt height in a CZ growth system. Journal of Crystal Growth, 2010, 312, 1453-1457.	0.7	5
40	Effects of Additional Bubbling on RH Vacuum Degassing Process with Water Model Experiment. Journal of Korean Institute of Metals and Materials, 2010, 48, 424-429.	0.4	4
41	3-D time-dependent numerical model of flow patterns within a large-scale Czochralski system. Journal of Crystal Growth, 2008, 310, 2126-2133.	0.7	14
42	Numerical studies on PACVD processes used for TiN multifunctional films using metal organic precursors. Journal of Crystal Growth, 2008, 310, 1697-1702.	0.7	4
43	Measurement of the 2-Dimensional Fractal Dimensions of Alumina Clusters Formed in an Ultra Low Carbon Steel Melt during RH Process. ISIJ International, 2007, 47, 1070-1072.	0.6	21
44	Numerical studies on up scaling of metal organic PACVD processes used for tribological coating in automotive industry. Surface and Coatings Technology, 2007, 201, 7318-7326.	2.2	4
45	A numerical simulation of the thickness of molten mold flux film in continuous casting. Metals and Materials International, 2007, 13, 223-227.	1.8	10
46	The morphology of Alâ˜Tiâ˜O complex oxide inclusions formed in an ultra low-carbon steel melt during the RH process. Metals and Materials International, 2007, 13, 249-255.	1.8	38
47	The effect of crystal rotation direction on the thermal and velocity fields of a Czochralski system with a low Prandtl number melt. Journal of Crystal Growth, 2006, 292, 272-281.	0.7	19
48	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. Journal of Crystal Growth, 2005, 275, e249-e257.	0.7	20
49	Characteristics of thermal fluctuation in a low Pr number melt at a large crucible for Czochralski crystal growth method. Journal of Crystal Growth, 2005, 275, e259-e264.	0.7	5
50	One-dimensional heat conduction model for an electrical phase change random access memory device with an 8F2 memory cell (F=0.15â€‰Î¼m). Journal of Applied Physics, 2003, 94, 3536-3542.	1.1	143
51	Estimation of Temperature Rise During Ion Milling of Samples. Microscopy and Microanalysis, 2003, 9, 796-797.	0.2	1
52	A New Numerical Model for Predicting Carbon Concentration during RH Degassing Treatment. ISIJ International, 2003, 43, 1403-1409.	0.6	47
53	Effects of Titanium and Oxygen Content on Microstructure in Low Carbon Steels. Materials Transactions, 2002, 43, 518-522.	0.4	13
54	The Effect of Operating Parameters and Dimensions of the RH System on Melt Circulation Using Numerical Calculations.. ISIJ International, 2001, 41, 403-409.	0.6	54

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55	Fluid flow and mixing behavior in gas stirred ladle with submerged lance. Metals and Materials International, 2000, 6, 461-466.	0.2	11
56	Numerical Calculation of Circulation Flow Rate in the Degassing Rheinstahl-Heraeus Process.. ISIJ International, 2000, 40, 749-755.	0.6	67
57	Residence Time Distribution Analysis by the Modified Combined Model for the Design of Continuous Refining Vessel.. ISIJ International, 1999, 39, 139-148.	0.6	12
58	Oxygen concentration inhomogeneity in the silicon melt of the czochralski single crystal growth system. Metals and Materials International, 1998, 4, 89-94.	0.2	3
59	Structure of temperature and velocity fields in the Si melt of a Czochralksi crystal growth system. Journal of Crystal Growth, 1995, 156, 383-392.	0.7	26
60	Copper Penetration of a Lance in a Smelting Furnace of the Mitsubishi Process. Metals and Materials International, 0, , 1.	1.8	1