Zhangfu Yuan

List of Publications by Year
in descending order

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32	773	471509 17	501196 28
papers	citations	h-index	g-index

32	32	32	566
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Marangoni-Convection-Driven Bubble Behavior and Microstructural Evolution of Sn-3.5Ag/Sn-17Bi-0.5Cu (Wt Pct) Alloy Solidified on Cu Substrate Under Space Microgravity Condition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5210-5220.	2.2	2
2	Wetting Behavior and Interfacial Characteristics of High Temperature Melts Under Microgravity. Research for Development, 2019, , 361-394.	0.4	1
3	Equilibrium between Carbon and FeO-Containing Slag in CO-CO₂-H₂O Atmosphere by FactSage Calculation. Steel Research International, 2016, 87, 1552-1558.	1.8	3
4	Spreading Dynamics and Interfacial Characteristics of Sn-3.0Ag-0.5Cu-xBi Melting on Cu Substrates. Microgravity Science and Technology, 2016, 28, 115-122.	1.4	4
5	Wettability between Molten Slag and MgOâ€“C Refractories for the Slag Splashing Process. ISIJ International, 2013, 53, 598-602.	1.4	17
6	Wettability of Sn–Zn, Sn–Ag–Cu and Sn–Bi–Cu Alloys on Copper Substrates. Materials Transactions, 2012, 53, 926-931.	1.2	11
7	Reactive Wetting Processes and Triple-Line Configuration of Sn-3.5Ag on Cu Substrates at Elevated Temperatures. Journal of Electronic Materials, 2012, 41, 2051-2056.	2.2	4
8	Spreading kinetics of a Sn-30Bi-0.5Cu alloy on a Cu substrate. Science Bulletin, 2012, 57, 682-686.	1.7	1
9	Wetting process and interfacial characteristic of Snâ€“3.0Agâ€“0.5Cu on different substrates at temperatures ranging from 503K to 673K. Applied Surface Science, 2011, 257, 4877-4884.	6.1	35
10	Three-dimensional Compressible Flow Simulation of Top-blown Multiple Jets in Converter. ISIJ International, 2010, 50, 491-500.	1.4	57
11	Wetting behavior and interfacial characteristic of Sn-Ag-Cu solder alloy on Cu substrate. Science Bulletin, 2010, 55, 797-801.	1.7	21
12	Wettability and Interfacial Permeability between Prereduced Ilmenite and Molten Pig Iron. ISIJ International, 2009, 49, 323-328.	1.4	11
13	Noncontact thermophysical property measurement of liquid cerium by electrostatic levitation. Journal of Materials Research, 2009, 24, 2449-2452.	2.6	6
14	Wettability of molten Snâ€“Biâ€“Cu solder on Cu substrate. Materials Letters, 2009, 63, 2067-2069.	2.6	57
15	Investigation of the Dynamic Reactive Wetting of Sn-Ag-Cu Solder Alloys on Ni(P)/Au Coated Cu Substrates. Materials Transactions, 2009, 50, 2695-2698.	1.2	20
16	Reduction Extraction Kinetics of Titania and Iron from an Ilmenite by H2â€“Ar Gas Mixtures. ISIJ International, 2009, 49, 164-170.	1.4	55
17	Surface tension of molten Al-Si alloy at temperatures ranging from 923 to 1123 K. Science Bulletin, 2008, 53, 2593-2598.	9.0	28
18	Effect of metal ion dopants on photochemical properties of anatase TiO2 films synthesized by a modified sol-gel method. Thin Solid Films, 2007, 515, 7091-7095.	1.8	45

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19	Comparison of Surface Tension Measured Values for Molten Tin at Different Oxygen Potentials. Steel Research International, 2006, 77, 495-499.	1.8	2
20	Measurement and calculation of surface tension of molten Snâ€“Bi alloy. Journal of Colloid and Interface Science, 2006, 297, 261-265.	9.4	18
21	Synthesis of TiO2 thin film by a modified sol-gel method and properties of the prepared films for photocatalyst. Journal of Sol-Gel Science and Technology, 2006, 39, 249-253.	2.4	30
22	Reductive kinetics of the reaction between a natural ilmenite and carbon. International Journal of Mineral Processing, 2006, 81, 133-140.	2.6	76
23	A new process for comprehensive utilization of complex titania ore. Minerals Engineering, 2006, 19, 975-978.	4.3	63
24	Production of zirconia from zircon using a plasma-rotating furnace. Scandinavian Journal of Metallurgy, 2004, 33, 189-192.	0.3	4
25	Surface tension of molten bismuth at different oxygen partial pressure with the sessile drop method. Scandinavian Journal of Metallurgy, 2004, 33, 338-346.	0.3	16
26	Effect of boron on the surface tension of molten silicon and its temperature coefficient. Journal of Colloid and Interface Science, 2004, 270, 140-145.	9.4	19
27	Desilicating Zircon with Plasma Heating and Phase Equilibrium Analyses. Steel Research International, 2003, 74, 531-537.	1.8	0
28	Experimental study on transition to oscillatory thermocapillary flow in a low Prandtl number liquid bridge. Journal of Crystal Growth, 2001, 233, 399-407.	1.5	45
29	Effects of Boron and Carbon on the Surface Tension of Molten Silicon under Precisely Controlled Oxygen Partial Pressure. Materials Transactions, JIM, 2000, 41, 331-337.	0.9	16
30	Local Corrosion of Solid Silica at the Surface of Molten Silicon. Materials Transactions, JIM, 2000, 41, 639-645.	0.9	10
31	Measurement of the Density of Molten Silicon by a Modified Sessile Drop Method. Materials Transactions, JIM, 2000, 41, 323-330.	0.9	27
32	Effect of the Oxygen Partial Pressure on the Surface Tension of Molten Silicon and Its Temperature Coefficient. ISIJ International, 2000, 40, S148-S152.	1.4	69