

# Zhangfu Yuan

## List of Publications by Year in descending order

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32  
papers

773  
citations

471509

17  
h-index

501196

28  
g-index

32  
all docs

32  
docs citations

32  
times ranked

566  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Reductive kinetics of the reaction between a natural ilmenite and carbon. International Journal of Mineral Processing, 2006, 81, 133-140.  | 2.6 | 76        |
| 2  | 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        |
| 3  | A new process for comprehensive utilization of complex titania ore. Minerals Engineering, 2006, 19, 975-978.   | 4.3 | 63        |
| 4  | Wettability of molten Sn-Bi-Cu solder on Cu substrate. Materials Letters, 2009, 63, 2067-2069.   | 2.6 | 57        |
| 5  | Three-dimensional Compressible Flow Simulation of Top-blown Multiple Jets in Converter. ISIJ International, 2010, 50, 491-500.   | 1.4 | 57        |
| 6  | Reduction Extraction Kinetics of Titania and Iron from an Ilmenite by H <sub>2</sub> -Ar Gas Mixtures. ISIJ International, 2009, 49, 164-170.  | 1.4 | 55        |
| 7  | 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        |
| 8  | Effect of metal ion dopants on photochemical properties of anatase TiO <sub>2</sub> films synthesized by a modified sol-gel method. Thin Solid Films, 2007, 515, 7091-7095.                                | 1.8 | 45        |
| 9  | Wetting process and interfacial characteristic of Sn <sub>3.0</sub> Ag <sub>0.5</sub> Cu on different substrates at temperatures ranging from 503K to 673K. Applied Surface Science, 2011, 257, 4877-4884. | 6.1 | 35        |
| 10 | Synthesis of TiO <sub>2</sub> 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        |
| 11 | Surface tension of molten Al-Si alloy at temperatures ranging from 923 to 1123 K. Science Bulletin, 2008, 53, 2593-2598.   | 9.0 | 28        |
| 12 | Measurement of the Density of Molten Silicon by a Modified Sessile Drop Method. Materials Transactions, JIM, 2000, 41, 323-330.  | 0.9 | 27        |
| 13 | Wetting behavior and interfacial characteristic of Sn-Ag-Cu solder alloy on Cu substrate. Science Bulletin, 2010, 55, 797-801.   | 1.7 | 21        |
| 14 | 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        |
| 15 | 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        |
| 16 | Measurement and calculation of surface tension of molten Sn-Bi alloy. Journal of Colloid and Interface Science, 2006, 297, 261-265.  | 9.4 | 18        |
| 17 | Wettability between Molten Slag and MgO-C Refractories for the Slag Splashing Process. ISIJ International, 2013, 53, 598-602.  | 1.4 | 17        |
| 18 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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        |
| 20 | Wettability and Interfacial Permeability between Prereduced Ilmenite and Molten Pig Iron. ISIJ International, 2009, 49, 323-328.  | 1.4 | 11        |
| 21 | Wettability of Sn&dash;Zn, Sn&dash;Ag&dash;Cu and Sn&dash;Bi&dash;Cu Alloys on Copper Substrates. Materials Transactions, 2012, 53, 926-931.  | 1.2 | 11        |
| 22 | Local Corrosion of Solid Silica at the Surface of Molten Silicon. Materials Transactions, JIM, 2000, 41, 639-645.   | 0.9 | 10        |
| 23 | Noncontact thermophysical property measurement of liquid cerium by electrostatic levitation. Journal of Materials Research, 2009, 24, 2449-2452.  | 2.6 | 6         |
| 24 | Production of zirconia from zircon using a plasma-rotating furnace. Scandinavian Journal of Metallurgy, 2004, 33, 189-192.  | 0.3 | 4         |
| 25 | 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         |
| 26 | 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         |
| 27 | Equilibrium between Carbon and FeO-Containing Slag in CO-CO <sub>2</sub> -H <sub>2</sub> -O Atmosphere by FactSage Calculation. Steel Research International, 2016, 87, 1552-1558.  | 1.8 | 3         |
| 28 | Comparison of Surface Tension Measured Values for Molten Tin at Different Oxygen Potentials. Steel Research International, 2006, 77, 495-499.   | 1.8 | 2         |
| 29 | 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         |
| 30 | Spreading kinetics of a Sn-30Bi-0.5Cu alloy on a Cu substrate. Science Bulletin, 2012, 57, 682-686.   | 1.7 | 1         |
| 31 | Wetting Behavior and Interfacial Characteristics of High Temperature Melts Under Microgravity. Research for Development, 2019, , 361-394.   | 0.4 | 1         |
| 32 | Desilicating Zircon with Plasma Heating and Phase Equilibrium Analyses. Steel Research International, 2003, 74, 531-537.  | 1.8 | 0         |