



Bingji Yan

Associate professor, Master's supervisor

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■ Study and work experience

Bingji Yan, male, born in 1987, is an associate professor. He obtained a bachelor's degree with the major of Metallurgy Engineering from Beijing University of Science and Technology (USTB in short) in 2010, and a doctor's degree with the same major from the same university in 2015. He worked as a postdoctor in Soochow University from September 2015 to November 2017, and then has been teaching in the same university as a lecturer since December 2017. In 2019, he was employed as an associate professor of the university. Up to now he has published more than 20 papers in core journals at home and abroad, such as JOM, INT J MIN MET MATER, Iron and Steel, and so on.

■ Main research directions

1. Comprehensive utilization of Solid waste resources for building materials.
2. Research on the mechanism of the blast furnace ironmaking process and the intelligent analysis with big data.
3. Research on the reaction behavior of ironmaking raw and fuel materials in blast furnace, and the comprehensive optimization of them.

■ Undertaking scientific research projects

1. Research on the behavior of molten iron and slag containing titanium flowing through coke packed bed. National Natural Science Foundation of China (No. 51604178)) (as a person in charge).
2. Research on the application foundation of raw and fuel materials' purchase decision-making and blending optimization basing on the analysis of big data in blast furnace ironmaking. National Natural Science Foundation of China (No. 51604178) (as a principal participant).
3. Design and program development of the key models of the blast furnace multi-dimensional visualization intelligent perception system, school enterprise cooperation project (as a person in charge).

■ Representative works

1. Jianxiao Chen, Bingji Yan, Hongwei Li*, Peng Li, Hongwei Guo. Vitrification of blast furnace slag and fluorite tailings for giving diopside-fluorapatite glass-ceramics. Materials Letters,

- 2018,218, 309-312.
2. Hongwei Guo, Mengyi Zhu, Bingji Yan*, Shichan Deng, Xinyu Li, Feng Liu. Dynamic Regional Viscosity Prediction Model of Blast Furnace Slag Based on the Partial Least-Squares Regression. JOM, 2017, 69(2): 395-401.
 3. Bingji Yan*, Jianliang Zhang, Jianliang Zhang, Zhiwen Shi, Feng Liu. Research on using blast furnace slag to produce building stone. Ceramic Transactions, 2015, 253:145-155.
 4. Bingji Yan*, Jianliang Zhang, Jianliang Zhang, Yingjie Cao. Evaluation of blast furnace operation profile based on principal component Analysis (PCA). Journal of Northeastern University, 2015, 36(7).
 5. Bingji Yan*, Jianliang Zhang, Hongwei Guo, Feng Liu. Research on simultaneous injection of waste tires with pulverized coal for blast furnace. Ceramic Transactions, 2015, 253: 135-144.
 6. Bingji Yan *, Jianliang Zhang, Chaoquan Yao, Haining Sun, Yapeng Zhang. Ore-blending Optimization model based on liquid phase formation characteristics of iron ore fines. Iron and Steel. 2015, 50 (6).
 7. Bingji Yan*, Jian-liang Zhang, Hong-wei Guo*, Ling-kun Chen, and Wei Li. High-temperature performance prediction of iron ore fines and the ore-blending programming problem in sintering. International Journal of Minerals, Metallurgy and Materials. 2014, 21(8): 741-747.
 8. Bingji Yan, Xingchen Gong, Hongwei Guo, Hongwei Li, Dong Chen. A way of glass ceramics's preparation by using green stone powder, Authorized invention patent, 2020.6.

■ Awards

1. The Competition of Teaching Ability for Using Ideology and Politics Competition of Soochow University, third class general, ranked first, 2019.
2. The 17th Young Teachers' Classroom Teaching Ability Competition of Soochow University, second class general, ranked first, 2018.
3. Research on Intelligent Optimization System of Raw and Fuel Resources in Ironmaking System, Wu Wenjun Chinese Artificial Intelligence Science and Technology Progress Award, third prize, ranked tenth, 2015.