ISSN 1672-6421 CN 21-1498/TG

CMINA FOUNDRY

中 @ 株 选 Vol. 19 No. 5 September 2022



Fabrication of silica-based ceramic cores with internal lattice structures by stereolithography

Page 369



CONTENTS

Vol. 19 No. 5 September 2022

Research & Development

- 369 Fabrication of silica-based ceramic cores with internal lattice structures by stereolithography *Ke-hui Hu, Hao-yuan Wang, Kuan Lu, Qian Feng, Dao-ding Yang, Jian Cao, Bo Zhang, Zhi-gang Lü, and Xing Ran*
- 380 Influence of non-uniform ultrasonic vibration on casting fluidity of liquid aluminum alloy Zi-heng Han, Zhi-ming Wang, Zhi-ping Sun, Bing-rong Zhang, and Wei-feng Rao
- 387 Numerical simulation on fluid flow behavior during 3-dimensional dendrite growth with random preference angle

Qi Wang, Ke-jie Feng, Shi-jie Zhang, Chen-yu Li, and Ri Li

395 An accelerated aging assisted by electric current in a Fe-Mn-Al-C low-density steel

Zhi-gang Wang, Chu-lun Shen, Jian-lei Zhang, Chang-jiang Song, and Qi-jie Zhai

403 Effect of La addition on semi-solid microstructure evolution of Mg-7Zn magnesium alloy

Zhan-yu Zhang, Xiao-feng Huang, Fan Yang, Sheng Zhang, and Jiao-li Fu

411 Morphologies of intermetallic compound phases in Sn-Cu and Sn-Co peritectic alloys during directional solidification

Peng Peng, Jin-mian Yue, An-qiao Zhang, Jia-tai Wang, and Jiang-lei Fan

419 Improvement of microstructure, mechanical properties, and corrosion resistance of WE43 alloy by squeeze casting

> Jian-cong Bian, Bao-yi Yu, Jian-fei Hao, Hui-wen Zhu, Hui-shu Wu, Bin Chen, Wei-rong Li, Yan-fang Li, Li Zheng, and Run-xia Li

427 Effect of V and Sn on microstructure and mechanical properties of gray cast iron

Yi-li Li, Rui-run Chen, Qi Wang, Wen-chao Cao, Xin-xiu Wang, Yuan Xia, Guo-ping Zhou, Ying-dong Qu, and Guang-long Li 435 Effects of Ag, Co, and Ge additions on microstructure and mechanical properties of Be-Al alloy fabricated by investment casting

> Yao Xie, Ya-jun Yin, Dong-xin Wang, Jian-xin Zhou, Jun-yi Li, Xiao-yuan Ji, Zhao-gang Liu, Xu Shen, and Wei Fu

443 High-temperature oxidation behavior of a cast Ti-47.5AI-2.5V-1.0Cr-0.2Zr alloy

Xue-jian Lin, Hong-jun Huang, Xiao-guang Yuan, Yin-xiao Wang, Bo-wen Zheng, Xiao-jiao Zuo, and Ge Zhou

Information /

455 The 17th China Die Casting Congress successfully held in Chongqing – A post report

Advertisements/

- Back cover Celebrating the 70th Anniversary of FOUNDRY Journal
- B1 2022 China Foundry Congress
- B2 InteCAST Software
- **B3** National Joint Engineering Research Center of High Performance Metal Wear Resistant Materials Technology
- B4 Shenyang Research Institute of Foundry Co., Ltd.

Partners



State Key Laboratory of Materials Processing and Die & Mould Technology, Huazhong University of Science and Technology



National Joint Engineering Research Center of High Performance Metal Wear Resistant Materials Technology, Jinan University