



个人简介	职称/职务	副教授 高品质钢研究所副所长	电子邮件	shicb0115@163.com
	办公电话	82376018	办公地点	冶金楼1212
	主讲课程	《特种冶金》、《工具钢及其产品制备》		
	科研方向	电渣重熔、特殊钢冶金、工模具钢		
教育及工作经历	<p>2013/01, 北京科技大学冶金工程专业(博士), 获工学博士学位。</p> <p>2009/06, 北京科技大学钢铁冶金专业(硕士), 获工学硕士学位。</p> <p>2006/07, 西安建筑科技大学冶金工程专业(本科), 获工学学士学位。</p>			
代表性成果 (包含论文、著作、获奖、专利、项目等)	<p>著作</p> <p>1. 史成斌. [Electroslag Remelting Towards Clean Steel]. ISBN:2022..</p> <p>2. 史成斌. [Carbide In Special Steel: Formation Mechanism and Control Technology]. ISBN:..2021.</p> <p>代表性论文</p> <p>1. Cheng-bin Shi*, Shi-jun Wang, Jing Li, Jung-wook Cho: Non-metallic inclusions in electroslag remelting: a review. Journal of Iron and Steel Research International, 2021, 28(12), 1483–1503.</p> <p>2. Chengbin Shi*, Haochi Xu, Shijun Wang, Jing Li, Xin Zheng: Hot deformation characteristics and microstructure evolution of electroslag remelted 15Cr-22Ni-1Nb austenitic heat-resistant steel. Materials Characterization, 2021, 182, 111564.</p> <p>3. Chengbin Shi: Deoxidation of electroslag remelting (ESR) – a review. ISIJ International, 2020, 60(6), 1083 – 1096.</p> <p>4. Cheng-bin Shi*, Yi Huang, Jian-xiao Zhang, Jing Li, and Xin Zheng: Review on desulfurization in electroslag remelting (ESR). Int. J. Miner. Metall. Mater., 2020.</p> <p>5. Chengbin Shi*, Dingli Zheng, Baoshan Guo, Jing Li, and Fang Jiang: Evolution of Oxide – Sulfide Complex Inclusions and Its Correlation with Steel Cleanliness During Electroslag Rapid Remelting (ESRR) of Tool Steel. Metallurgical and Materials Transactions B, 2018, 49B, 3390-3402..</p>			

代表性成果
(包含论文、著作、获奖、专利、项目等)

6. **Chengbin Shi***, Hui Wang, and Jing Li: Effects of reoxidation of liquid steel and slag composition on the chemistry evolution of inclusions during electroslag remelting. *Metallurgical and Materials Transactions B*, 2018, 49B(4), 1675 - 1689.

7. **Cheng-bin Shi**, Wen-tao Yu, Hao Wang, Jing Li, and Min Jiang: Simultaneous modification of alumina and $MgO \cdot Al_2O_3$ inclusions by calcium treatment during electroslag remelting of stainless tool steel. *Metallurgical and Materials Transactions B*, 2017, 48B(1), 146 - 161.

8. **Cheng-bin Shi**, Qin-tian Zhu, Wen-tao Yu, Hui-dong Song, and Jing Li: Effect of oxide inclusions modification during electroslag remelting on primary carbides and toughness of a high-carbon 17mass% Cr tool steel. *Journal of Materials Engineering and Performance*. 2016, 25(11), 4785-4795.

9. **Cheng-bin Shi**, Seung-ho Shin, Ding-li Zheng, Jung-wook Cho, and Jing Li: Development of low-fluoride slag for electroslag remelting: role of Li_2O on the viscosity and structure of the slag. *Metallurgical and Materials Transactions B*, 2016, 47B(6), 3343 - 3349..

10. **Cheng-bin Shi**, Jung-wook Cho, Ding-li Zheng, and Jing Li: Fluoride evaporation and crystallization behavior of $CaF_2-CaO-Al_2O_3-(TiO_2)$ slag for electroslag remelting of Ti-containing steels. *International Journal of Minerals, Metallurgy and Materials*, 2016, 23(6), 627-636..

11. **Cheng-bin Shi**, Jing Li, Jung-wook Cho, Fang Jiang, and In-ho Jung: Effect of SiO_2 on the crystallization behaviors and in-mold performance of $CaF_2-CaO-Al_2O_3$ slags for drawing-ingot-type electroslag remelting. *Metallurgical and Materials Transactions B*, 2015, 46B(5), 2110-2120..

授权专利

1. 发明专利. 一种细化高洁净度稀土电渣钢中夹杂物的方法.
ZL201910656623. 7. 2020-07-25 .
2. 发明专利. 一种奥氏体热作模具钢及其制备方法. ZL201711366089. 3. 2020-07-25 .
3. 发明专利. 一种利用稀土提高低碳当量钢板焊接热影响区韧性的方法.
ZL201910245646. 9. 2020-02-14 .
4. 发明专利. 一种利用稀土提高高碳当量钢板焊接热影响区韧性的方法.
ZL201910245642. 0. 2020-02-07 .
5. 发明专利. 一种改善电渣重熔工模具钢中碳化物的方法.
ZL201610835307. 2. 2018-05-22 .
6. 发明专利. 一种生产工模具钢的电渣重熔连续定向凝固方法.
CN201610946480. X. 2016-11-02 .

所获奖励

1. 省部级, 高品质不锈钢均质化复合制备技术及产业化应用, 中国机械工业科学技术奖二等奖, 2020-11。
2. 省部级, 高碳马氏体不锈钢组织和性能控制的关键技术, 中国产学研合作创新成果优秀奖, 2019-12。
3. 省部级, 高品质刀剪用马氏体不锈钢中碳化物控制的关键技术, 中国钢铁工业协会、中国金属学会冶金科学技术奖三等奖, 2018-08。