metals

an Open Access Journal by MDPI

IMPACT FACTOR 2.9

CITESCORE 4.4

Advanced Tundish Metallurgy and Clean Steel Technology

Guest Editors:

Dr. Chao Chen

Dr. Adam Cwudziński

Prof. Dr. Rodolfo Morales

Prof. Dr. Markéta Tkadlečková

Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editors

Tundish has been widely used in the continuous casting of steel, aluminum, and copper. In the early 1980s, the concept of tundish metallurgy was put forward by Heaslip and McLean. The tundish metallurgy has developed with the evolution and demand of continuous casting as well as clean steel production. Extensive physical and mathematical model studies on tundish have been carried out. Even larger tundish volume, long refractory service life, stable performance for high-speed casting, uniform temperature control by heating technologies, and flexible flow control for casting speed adjustment are new demands and technologies for tundish. Clean steel production is a systematic and complicated project throughout the whole steel production process. Raw material (ferroalloys), secondary refining, tundish, and continuous casting are all key issues for clean steel production.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) tundish metallurgy, secondary refining, continuous casting, clean steel technologies, refractories, converter and electric arc furnace steelmaking, and metallurgical equipment development.

metals

IMPACT FACTOR 2.9

CITESCORE 4.4

an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
𝕏@Metals_MDPI