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Primary Metallurgy of Iron and Steel: Towards Low Carbon Steel Production

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Deadline for manuscript submissions:
closed (10 February 2023)

Message from the Guest Editor

Dear colleagues,

One of the important challenges of the global steel industry in the coming decades is to implement technologies which allow a climate neutral steel production. The Paris Agreement from 2015 is a landmark to combat climate change and to accelerate and intensify the actions and investments needed for a sustainable low carbon future. The steel sector was responsible for 8% of the world´s anthropogenic CO_2 emission in 2018.

This Special Issue focuses on research which contributes to reducing the intensity of fossil carbon usage in primary metallurgy for iron and steelmaking. We invite you to submit papers which deal with methods and technologies for the reduction of greenhouse gas emissions of the current production routes as well as for breakthrough technologies to avoid these emissions. Authors working in their research for technological approaches such as process integration (PI), carbon direct avoidance (CDA), as well as carbon capture storage and use (CCSU) are particularly invited to submit their works.

Full papers, communications, and reviews are all welcome.

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Message from the Editor-in-Chief

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