

Special Issue

Advances in Low-Carbon and Zero-Carbon Metallurgical Technologies

Message from the Guest Editors

Low-carbon and zero-carbon metallurgy stands at the forefront of sustainable industrial transformation, representing a pivotal shift for the future of the metal and material industry. This Special Issue seeks high-quality feature papers that provide insights into and highlight the latest scientific and technological advancements in developing and scaling low- and zero-carbon metallurgical processes. We welcome contributions that span fundamental research, process innovation, and system integration, with applications across ferrous, non-ferrous, and critical metal production. As of this Special Issue, we cordially invite you to submit your recent work, including original research manuscripts and comprehensive review articles that significantly advance our understanding of these transformative technologies.

Guest Editors

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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