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Special Issue Reprint

Design, Manufacturing and Properties of Refractory Materials

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This reprint aims to immerse the reader into the latest developments in the technology of refractory materials. From the application of Artificial Intelligence and computer-aided methods, like machine learning or image analysis and the simulation of refractories' properties and corrosion phenomena, to tailoring the properties of refractories to be more environmentally friendly, we aim to elucidate the current global trends and progress being made in refractories technology. This reprint has been created by world-recognized researchers, representing both academia and industry, striving jointly to make refractories safer and working for longer periods of time. Through this reprint, we demonstrate our major collaborative efforts to shift the technology to be more effective for the producers of refractory materials, more efficient for end-users, and, primarily, more sustainable in the interest of protecting our most precious shared asset—the safe planet Earth.

