High Temperature Corrosion and Protection of Ceramics, Composites and Silicides

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Presented in this focus issue of *Oxidation of Metals* is a series of informative papers that deal the high-temperature corrosion behavior of ceramics and silicides. The specific materials of concern are mainly Mo–Si–B intermetallics and SiC–SiC ceramic composites; although, carbon fibers are also considered in this issue. Except for carbon fibers, the specific advantages of these materials are their potential to be used at very high temperatures (over 1,500 °C) and their ability to grow protective silica layers. Even so, special attention is paid to the role played by additions like La_2O_3 , B, Hf, Dy, and Ti, which are present in order to positively impact high-temperature corrosion behavior and/or the mechanical properties of these materials.

The following key papers stem from presentations that were given at the 8th international conference on High Temperature Corrosion and Protection of Materials (HTCPM2012), which was held at Les Embiez Island, France, on the 20–25th of May 2012.

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