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Special Topic Articles

Recent Plasma Technologies for Removal of Persistent Chemicals
in Water without Environmental Impact

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The study evaluated the effect of a magnetic field on the corrosion properties of reduced activation ferritic steel in high-temperature, high-pressure water. The figure compares the oxide film properties in an environment without a magnetic field and in a magnetic field of 1.3 Tesla. The magnetic field increased the growth rate of oxide particles on the surface, indicating that it affects the corrosion properties of reduced activation ferritic steel.

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