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Sommario/riassunto	The Light Metals symposia at the TMS Annual Meeting & Exhibition present the most recent developments, discoveries, and practices in primary aluminum science and technology. The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies. The 2024 collection includes contributions from the following symposia: • Alumina & Bauxite • Aluminum Alloys: Development and Manufacturing • Aluminum Reduction Technology • Electrode Technology for Aluminum Production • Melt Processing, Casting and Recycling • Scandium Extraction and Use in Aluminum Alloys Chapter(s) "Online Monitoring of Metal Oxides in Molten Fluoride Electrolytes" is available open access under a Creative Commons Attribution 4.0 International License via

