

Elements

An International Magazine of Mineralogy, Geochemistry, and Petrology



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Supergene copper carbonates (green is malachite; blue is azurite) from the MacArthur mine, Yerington district, Nevada, USA. PHOTO CREDITS: FERNANDO BARRA, MARTIN REICH, AND CRISTIÁN PRADO

Supergene Metal Deposits

Guest Editors: **Martin Reich** and **Paulo M. Vasconcelos**



Geological and Economic Significance of Supergene Metal Deposits

Martin Reich and Paulo M. Vasconcelos



Supergene Alteration of Ore Deposits: From Nature to Humans

Harald G. Dill



The Paleoclimatic Signatures of Supergene Metal Deposits

Paulo M. Vasconcelos, Martin Reich, and David L. Shuster



Copper Isotopic Perspectives on Supergene Processes: Implications for the Global Cu Cycle

Ryan Mathur and Matthew S. Fantle



Predicting Geologic Corrosion with Electrodes

Devon Renock and Lindsay C. Shuller-Nickles



The Geomicrobiology of Supergene Metal Deposits

Carla M. Zammit, Jeremiah P. Shuster, Emma J. Gagen, and Gordon Southam

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