CONTENTS

A Special Issue Devoted to Proterozoic Iron Oxide-Apatite (±REE) and Iron Oxide Copper-Gold and Affiliated Deposits of Southeast Missouri, USA, and the Great Bear Magmatic Zone, Northwest Territories, Canada

Guest Editors: John F. Slack, Louise Corriveau, and Murray W. Hitzman

,	,	
A Special Issue Devoted to Proterozoic Iron Oxide-Apatite (±REE) and Iron Oxide Copper-Gold and Affiliated Deposits of Southeast Missouri, USA, and the Great Bear Magmatic Zone, Northwest Territories, Canada: Preface	John F. Slack, Louise Corriveau, and Murray W. Hitzman	1803
Mining and Exploration History of the Southeast Missouri Iron Metallogenic Province	M. A. Starkey and C. M. Seeger	1815
Regional Geologic and Petrologic Framework for Iron Oxide ± Apatite ± Rare Earth Element and Iron Oxide Copper-Gold Deposits of the Mesoproterozoic St. Francois Mountains Terrane, Southeast Missouri, USA	Warren C. Day, John F. Slack, Robert A. Ayuso, and Cheryl M. Seeger	1825
Magnetic and Gravity Gradiometry Framework for Mesoproterozoic Iron Oxide-Apatite and Iron Oxide Copper-Gold Deposits, Southeast Missouri	Anne E. McCafferty, Jeffrey D. Phillips, and Rhonda L. Driscoll	1859
U-Pb, Re-Os, and Ar/Ar Geochronology of Rare Earth Element (REE)-Rich Breccia Pipes and Associated Host Rocks from the Mesoproterozoic Pea Ridge Fe-REE-Au Deposit, St. Francois Mountains, Missouri	J. N. Aleinikoff, D. Selby, J. F. Slack, W. C. Day, R. M. Pillers, M. A. Cosca, C. M. Seeger, C. M. Fanning, and I. M. Samson	1883
High Spatial Resolution U-Pb Geochronology and Pb Isotope Geochemistry of Magnetite-Apatite Ore from the Pea Ridge Iron Oxide-Apatite Deposit, St. Francois Mountains, Southeast Missouri, USA	L. A. Neymark, C. S. Holm-Denoma, A. J. Pietruszka, J. N. Aleinikoff, C. M. Fanning, R. M. Pillers, and R. J. Moscati	1915
Geochemistry, Nd-Pb Isotopes, and Pb-Pb Ages of the Mesoproterozoic Pea Ridge Iron Oxide-Apatite– Rare Earth Element Deposit, Southeast Missouri	Robert A. Ayuso, John F. Slack, Warren C. Day, and Anne E. McCafferty	1935
Mineralogy, Chemistry, and Fluid-Aided Evolution of the Pea Ridge Fe Oxide-(Y + REE) Deposit, Southeast Missouri, USA	Daniel E. Harlov, Corey J. Meighan, Ian D. Kerr, and Iain M. Samson	1963
	Albert H. Hofstra, Corey J. Meighan, Xinyu Song, Iain Samson, Erin E. Marsh, Heather A. Lowers, Poul Emsbo, and Andrew G. Hunt	1985
Oxygen, Hydrogen, Sulfur, and Carbon Isotopes in the Pea Ridge Magnetite-Apatite Deposit, Southeast Missouri, and Sulfur Isotope Comparisons to Other Iron Deposits in the Region	Craig A. Johnson, Warren C. Day, and Robert O. Rye	2017
Iron and Oxygen Isotope Signatures of the Pea Ridge and Pilot Knob Magnetite-Apatite Deposits, Southeast Missouri, USA	Tristan M. Childress, Adam C. Simon, Warren C. Day, Craig C. Lundstrom, and Ilya N. Bindeman	2033
Alteration Facies Linkages Among Iron Oxide Copper-Gold, Iron Oxide-Apatite, and Affiliated Deposits in the Great Bear Magmatic Zone, Northwest Territories, Canada	L. Corriveau, JF. Montreuil, and E. G. Potter	2045
Metasomatic Alteration Control of Petrophysical Properties in the Great Bear Magmatic Zone (Northwest Territories, Canada)	R. J. Enkin, L. Corriveau, and N. Hayward	2073
Geophysical Signature of the NICO Au-Co-Bi-Cu Deposit and Its Iron Oxide-Alkali Alteration System, Northwest Territories, Canada	N. Hayward, L. Corriveau, J. A. Craven, and R. J. Enkin	2087
Tectonomagmatic Evolution of the Southern Great Bear Magmatic Zone (Northwest Territories, Canada): Implications for the Genesis of Iron Oxide-Alkali–Altered Hydrothermal Systems	_	2111
On the Relationship Between Alteration Facies and Metal Endowment of Iron Oxide-Alkali–Altered Systems, Southern Great Bear Magmatic Zone (Canada)	JF. Montreuil, L. Corriveau, E. G. Potter, and A. F. De Toni	2139
Interesting Papers in Other Journals		2169