

Diversity of Mineralization and the Spectrum of Ore Deposits

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Diversity of mineralization is essential phenomena of ore-forming process. It is represented not only in genesis, morphology, attitude, dimensions, ore types, ore combination, useful and damaging elements within one deposit, but also in ore deposits, ore fields, ore belts, ore provinces, mineralized district and metallogenic epoch. Diversity of mineralization is behaved in origin of ore materials as geo-anomalies of ore source, in carrier of ore medium as geo-anomalies of ore fluid, in energy as geo-anomalies of ore transformation, in ore accumulation as geo-anomalies of reservoir environment, and post-metallogenic diversification as geo-anomalies of preservation or destruction. Therefore, the characteristics and attribution of diversity of mineralization may be determined by studying the geo-anomaly background. The spectrum of ore deposits is related genetically with the diversity of mineralization, which may play important role of appraising and forecasting new type of mineral deposits. So the research of diversity of mineralization and its spectrum of ore deposits is an important exploration point of view to discover regional rules of mineralization as well as research of super-large ore deposits, of ore fluid and of regional mineralization in large scale.