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滇东南地区中三叠统沉积型锰矿的热释光特征 [点此下载全文](#)

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摘要:

矿物和岩石的热释光是矿物晶体特征中研究程度较低的领域。将采自滇东南地区中三叠统的锰矿样品分类呈现: 上矿段褐红色锰碳酸盐集合体的热释光谱线多两峰型, 前特征峰位于250~350℃之间, 后特征峰位于350~430℃后峰, 热释光强度最大值均出现在最高温度——450℃处, 前峰均存在, 后峰偶有缺失; 下矿段黑色锰氧化物集合体为第一峰, 而在390±10℃范围内为一拐点, 420±10℃处为另一拐点, 使热释光谱线呈现阶梯状, 但部分样品矿样的热释光谱线对比发现: 上、下矿段内部的同类型矿样的热释光特征具相似性, 上、下矿段之间的同类型矿样说明矿石形成时所处环境对热释光谱线的影响大于矿物成分对矿石热释光谱线的影响。

关键词: [热释光](#) [锰矿石](#) [中三叠统](#) [法郎组](#) [滇东南地区](#)

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Abstract:

Research degree on the thermoluminescence of minerals and rocks is low in the study of micro mineral crystals. The samples of manganese ore were divided three types. Measures of the maroon man upper ore block, the experimental results indicate that temperature—thermo luminescence curves are curves. The temperature of prepeak range from 250℃ to 350℃, and the temperature of postpeak range average value of postpeaks is higher than prepeak. The temperature of maximum thermoluminescence in temperature—450℃ (such as Lm3). The prepeaks are all existed, but some of the postpeaks are missing oxidized manganese ore in lower ore block, the experimental results indicate that temperature—thermo luminescence curves present stepladder curves. the temperature of prepeak range from 280℃ to 340℃, the temperature of the first inflection point range from 380℃ to 400℃, the temperature of the second inflection point range from 410℃ to 430℃. The features thermoluminescence curves is comparable in but is incomparable between the upper ore bed and the lower ore bed. This fully explains that the thermoluminescence curves on genetic environment is much larger than mineral composition.

Keywords: [thermoluminescence\(TL\)](#) [manganese ores](#) [Middle Triassic](#) [Falang Formation](#) [southeastern](#)

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