

## Elemental and Chemical Analyses of Low Quality Mogok Ruby

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It is well-known that high quality gem stones are naturally rare. Thus, lots of effort have been spent to improve low quality gem materials to enhance their appearances. This work focuses on the characterizations of low quality Mogok ruby to provide the information for improving its color. UV-Vis spectroscopic, X-ray fluorescence spectroscopic and X-ray absorption spectroscopic techniques were employed to obtain elemental and chemical information of the ruby. The measurement results will be presented and discussed.

Keywords: ruby; XRF; XAS; UV-Vis

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