

عنوان مقاله:

Utilizing ASTER Satellite Data for Identification of Hydrothermal Zones in the Anar Area, Iran

محل انتشار:

پنجمین کنگره بین المللی مهندسی، تکنولوژی و علوم کاربردی (سال: 1402)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

This research focuses on the 1:40000 map of the Anar area, intending to determine hydrothermal zones using remote sensing satellite imagery. Satellite images contain a lot of information about the material of the surface layers and can be very useful in the exploration of surface mines. For this purpose, necessary corrections were applied to satellite images, and various techniques were implemented on the ASTER satellite image, including band ratio processing, false color composition, and selected principal component analysis (Crosta) to emphasize alterations. Ultimately, the Crosta method proved superior to other approaches in identifying hydrothermal zones related to porphyry copper in the southwestern section of the Anar area.

کلمات کلیدی:

Anar area, Remote sensing, ASTER, Hydrothermal, Crosta

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