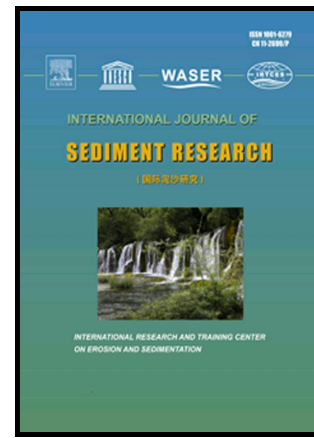


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Sediment contribution from different geologic formations and land uses in an Iranian small watershed, case study

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Abstract

Many intra and extra problems occurred due to unsustainable human use of natural resources leading to increasing sediment loads in the watersheds. However, few studies have been comprehensively conducted in progressing countries to prioritize sediment sources from different points of views, particularly in some countries like Iran where such valuable information is essential for proper watershed resources management. The present study was therefore planned to assess the importance of potential sediment sources viz., spatial sources (geologic units) and source types (land use units) in sediment yield in Idelo watershed as one of the important sub-watersheds of Sefidrood large Watershed in Zanjan Province, Iran, using composite fingerprinting. In addition, the results of the sediment fingerprinting approach were compared with those of field measurement data obtained from studying soil erosion

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