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泗顶铅锌矿塌陷地生态环境灾变链式机制及灾害环

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Title: Ecological environment disaster-chain mechanism of subsidence area in Siding Lead-zinc Mine and corresponding environment renovation

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关键词: [泗顶铅锌矿](#); [地面塌陷](#); [生态环境](#); [灾变链式机制](#); [灾害环境](#)

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摘要: 引入了矿山塌陷地生态环境灾害链理论。结合泗顶铅锌矿地面塌陷引发的各种灾害,认为生态环境破坏主要包括土地、气候、水和人工生态环境破坏,地面塌陷是其主要灾害源,相应衍生出5种生态环境破坏次生灾害链。对其衍生的不同灾种之间及同一灾种不同单元体之间的相互作用机理进行了研究,共分7种灾变链式机制,并基于生态恢复对地面塌陷灾害分4类进行治理,共治理地面塌陷坑280个,同时将其划分为城市农业景观功能区和经济林景观功能区,恢复农业耕种用地(旱地)24.2 hm²,恢复经济林用地8.47 hm²。结果表明,所进行的生态环境灾变链式机制的研究是可行的,可为矿山地面塌陷灾害整治设计工作提供理论依据和新的分析思路。

Abstract: Theory of disaster chain in ecological environment for mine was introduced herein. In view of various disasters initiated by ground collapse, this paper considers that ecological environmental destruction includes land, climate, water and artificial ecological environment destruction, and ground collapse is the major source of disasters. The disaster chain derives five kinds of secondary

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disaster chains of ecological environmental destruction. In order to study the interaction mechanism between different kinds of disasters or derivatives from different units of the same disaster and control the hazard of ground collapse based on ecological restoration, the disaster chain is divided into seven kinds of mechanisms and four classes. Total 280 collapse pits are thus controlled, and are further divided into landscape ecological function areas of urban agriculture and economic forests. Meanwhile, farmland and 8.47 hm² forest land were restored. The results show that the proposed research on ecological environment disaster-chain mechanism is feasible and could provide a new thought for controlling design of ground collapse in mine areas.

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