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标题: Space-technology-policy governance model in loess plateau agro-pastoral zone: Hengshan district case
作者: Li, XY (Li, Xinyang); Jin, B (Jin, Bei); Sun, Y (Sun, Ye); Miao, CY (Miao, Chengyu)
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摘要: The agro-pastoral ecotone of the Loess Plateau, a critical ecological barrier, faces severe challenges from land degradation and unsustainable agricultural practices. A central challenge lies in the decoupling of crop farming and livestock breeding, which leads to significant resource misallocation. To address these issues, this study constructs and empirically validates a tripartite governance model termed "STP-Governance," which integrates spatial coupling, technology integration, and policy coordination. Taking Hengshan District in Yulin City as a case study, we employed a mixedmethods approach that combined GIS spatial analysis, field surveys, and policy text analysis. Findings show that the model reduces forage and manure transport distances by over 30%, increases straw utilization to more than 75%, and manure field application to over 80%. These optimizations reduce the agricultural carbon footprint by 15%-25%. By strengthening multidimensional linkages among spatial planning, technological intervention, and institutional design, the STP-Governance framework offers a systematic and transferable pathway toward green agricultural transformation in ecologically fragile agro-pastoral regions.
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地址: [Li, Xinyang] Northwest A&F Univ, Coll Econ & Management, Yangling 712100, Peoples R China.
[Jin, Bei] Northwest A&F Univ, Dept Land Resource Management, Yangling 712100, Peoples R China.
[Sun, Ye; Miao, Chengyu] Northwest A&F Univ, Coll Nat Resources & Environm, Yangling 712100, Peoples R China.
通讯作者地址: Jin, B (通讯作者), Northwest A&F Univ, Dept Land Resource Management, Yangling 712100, Peoples R China.
电子邮件地址: jinbei@nwsuaf.edu.cn
Affiliations: Northwest A&F University - China; Northwest A&F University - China; Northwest A&F University - China
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