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Influence of Climate on Carbon Sequestration in Conifers Growing under Contrasting Hydro-Climatic Conditions

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| 关键词 | carbon accumulation ; conifers ; wood density ; mixed models ; tree rings ; dendroecology ; |
| 摘要 | <p>Analyzing the contrasting ecological gradients makes it easier to understand the influence of climate on carbon accumulation. Background and Objectives: The increasing climatic variability has implications for vegetation, impacting on its ecological functions, among which carbon accumulation stands out. In the present study, we used climate-dendrochronology relationships to evaluate carbon accumulation in two conifer species that grow in contrasting humidity sites: <i>Pinus strobiformis</i> Engelm (mesic sites) and <i>Pinus leiophylla</i> var. <i>chihuahuana</i> (Engelm.) Shaw (arid sites). Materials and Methods: Using a dendrochronological approach, we estimated the correlation of biomass and carbon accumulation of each species with some climatic variables (temperature, precipitation, and a drought index) and generated a linear mixed model. Results: The response in carbon accumulation between species with respect to climate was significantly different. <i>P. strobiformis</i> showed a positive correlation with the climatic variables analyzed, while in <i>P. leiophylla</i> the correlation was negative, except with precipitation. Conclusions: These results show that forests in both mesic and arid sites are prone to climate changes, although their responses are different, impacting the productivity and carbon cycles of forest ecosystems. View Full-Text</p> |
| 服务人员 | 王璐 |
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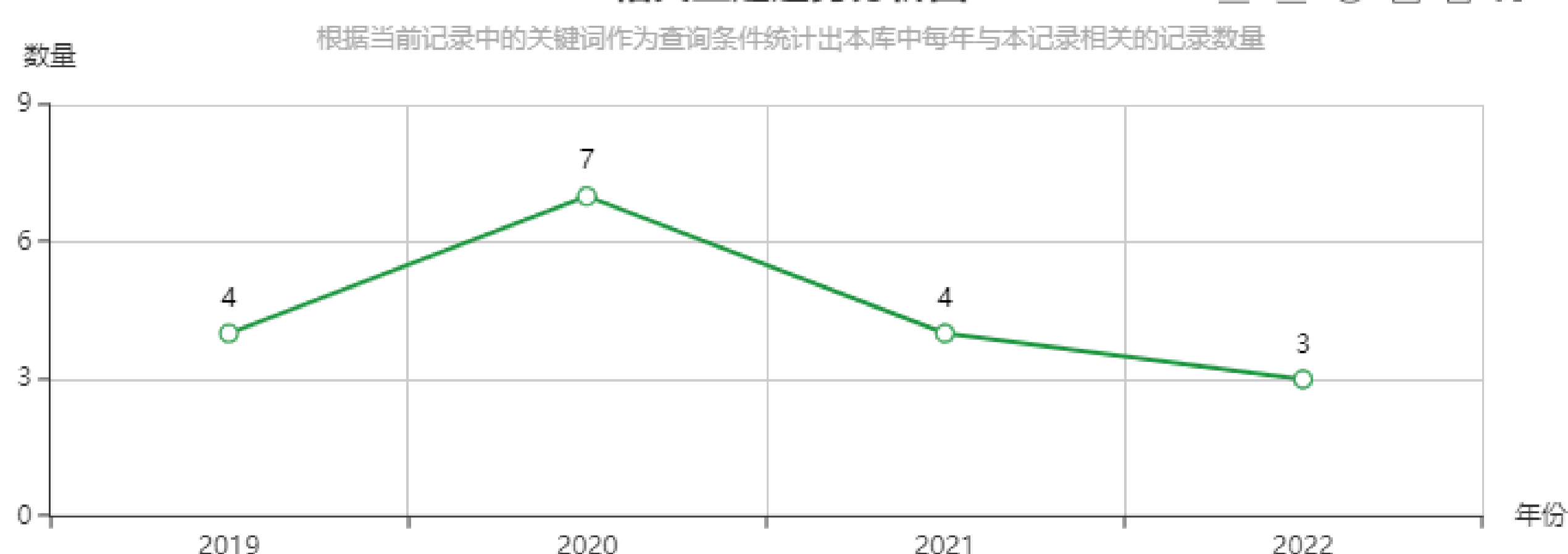
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