草业科学 2009, 26(06) 25-28 DOI: ISSN: 1001-0629 CN: 62-1069/S

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金佛山地区不同生境下土壤有机质与全氮含量及其相关性 陈 伟,杨国锋,赵云,张苗苗,孙 娟,张德罡

摘要:

通过对金佛山地区不同生境下土壤有机质和全氮含量的测定表明, $0\sim10$ cm土层内,有机质含量的顺序为西坡 (108.088 g/kg)>南坡(92.229 g/kg)>山顶(89.727 g/kg)>北坡(80.881 g/kg),全氮含量的顺序为山顶 (6.482 g/kg)>南坡(92.229 g/kg)>西坡(4.355 g/kg)>北坡(3.928 g/kg),土壤C/N顺序为西坡(24.82)>北坡(20.59)>南坡(16.12)>山顶(13.84); $10\sim20$ cm土层内,有机质含量的顺序为山顶(93.895 g/kg)>西坡(70.319 g/kg)>南坡(67.970 g/kg)>北坡(63.255 g/kg),全氮含量的顺序为山顶(5.528 g/kg)>西坡 (4.055 g/kg)>南坡(3.867 g/kg)>北坡(3.460 g/kg),土壤C/N顺序为北坡(18.28)>南坡(17.58)>西坡 (17.34)>山顶(16.99)。不同生境之间的土壤有机质和全氮含量存在差异,且 $0\sim10$ cm土层高于 $10\sim20$ cm土层。土壤有机质和全氮含量之间呈显著正相关。

关键词: 金佛山; 土壤有机质; 土壤全氮; 相关性

Contents and relationships of soil organic matter and total nitrogen under different habitats in Jinfo Mountain

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Abstract:

The contents of organic matter (OM), total nitrogen (TN) and C/N ratio of soil under different habitats in Jinfo Mountain were studied and the results showed that the order of OM content in 0 to 10 cm soil layer was west slope (108.088 g/kg) >south slope (92.229 g/kg) >summit (89.727 g/kg) >north slope (80.881 g/kg). The order of TN content was summit (6.482 g/kg) >south slope (5.722 g/kg) >west slope (4.355 g/kg) >north slope (3.928 g/kg). The order of C/N ratio was west slope (24.82) >north slope (20.59) >south slope (16.12) >summit (13.84). While in 10 to 20cm soil layer, the order of OM content was summit (93.895 g/kg) > west slope (70.319 g/kg) >south slope (67.970 g/kg) >north slope (63.255 g/kg). The order of TN content was summit (5.528 g/kg) >west Slope (4.055 g/kg) >south slope (3.867 g/kg) >north slope (3.460 g/kg). The order of C/N ratio was north slope (18.28) >south slope (17.58) >west slope (17.34) >summit (16.99). It could be concluded that the contents of TN and OM were different among different habitats, and TN and OM contents in 0 to 10 cm soil layer were more than that in 10 to 20 cm soil layer. Moreover, the relationship between TN contents and OM contents in different habitats were significantly positive correlated.

Keywords: Jinfo Mountain soil organic matter soil total nitrogen correlation

收稿日期 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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