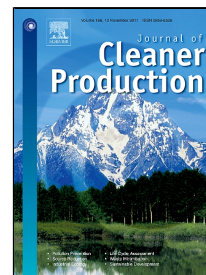


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Projection of urban expansion and related changes in soil carbon stocks in the Moscow Region

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1 **Projection of urban expansion and related changes in soil**

2 **carbon stocks in the Moscow Region**

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15 **Abstract**

16 Urbanization is responsible for large environmental changes worldwide. Although
17 traditionally urbanization was related to negative environmental impacts, recent research also
18 highlights positive impacts like the potential of urban areas to store soil organic carbon. The net
19 effect of urbanization on soil organic carbon is poorly understood. Negative influences of
20 construction and soil sealing may be compensated by the establishment of green areas. Possible
21 net effects of future urbanization on soil organic carbon stocks were explored for the Moscow
22 Region, based on the soil survey and land conversion model. The regional urbanization was

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