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- 437 B. PAN AND B. XING  
Applications and implications of manufactured nanoparticles in soils: a review

### **Biological interactions**

- 457 Z. HONG, X. RONG, P. CAI, K. DAI, W. LIANG, W. CHEN AND Q. HUANG  
Initial adhesion of *Bacillus subtilis* on soil minerals as related to their surface properties
- 467 M. MOILANEN, J. HYTÖNEN AND M. LEPPÄLÄ  
Application of wood ash accelerates soil respiration and tree growth on drained peatland

### **Carbon and Organic matter**

- 476 O. KIIKKILÄ, V. KITUNEN, P. SPETZ AND A. SMOLANDER  
Characterization of dissolved organic matter in decomposing Norway spruce and silver birch litter
- 487 R. LÓPEZ, D. GONDAR, J. ANTELO, S. FIOL AND F. ARCE  
Study of the acid-base properties of a peat soil and its humin and humic acid fractions
- 495 T. NAKANISHI, M. ATARASHI-ANDOH, J. KOARASHI, Y. SAITO-KOKUBU AND K. HIRAI  
Carbon isotopes of water-extractable organic carbon in a depth profile of forest soil imply a dynamic relationship with soil carbon

### **Chemical processes and functions**

- 501 F. VISCONTI, J. M. DE PAZ AND J. L. RUBIO  
Choice of selectivity coefficients for cation exchange using principal components analysis and bootstrap ANOVA of coefficients of variation
- 514 H. M. P. L. PREMARATHNA, M. J. MCLAUGHLIN, J. K. KIRBY, G. M. HETTIARACHCHI AND S. STACEY  
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### **Letters to editor**

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