
Plant Litter Decomposition Humus Formation Carbon Sequestration

plant litter - springer - björn berg charles mcclaugherty second edition plant litter decomposition, humus formation, carbon sequestration **plant litter decomposition%2c humus formation%2c carbon ...** - plant litter decomposition%2c humus formation%2c carbon sequestration ebook plant litter decomposition, humus formation, carbon sequestration currently **litter and soil organic matter decomposition** - investigating the effects of litter quality and precipitation on litter decomposition (in a lowland tropical rain forest receiving > 5000 mm/yr precipitation). **plant litter - springer** - björn berg • charles mcclaugherty plant litter decomposition, humus formation, carbon sequestration third edition 123 **bjorn berg charles mcclaugherty plant litter - springer** - bjorn berg • charles mcclaugherty plant litter decomposition, humus formation, carbon sequestration with 76 figures and 64 tables springer **plant litter decomposition and nutrient release in peatlands** - plant litter decomposition and nutrient release in peatlands luca bragazza, 1 alexandre buttler, 2,3,4 andy siegenthaler, 2 and edward a. d. mitchell 2,5,6 decomposition of plant litter is a ... **reviews litter decomposition, climate and litter quality** - litter decomposition, climate and litter quality marie-madeleine coqteaux, pierre bottner and björn berg the size of the organic carbon (c) reservoir in the soil depends upon both plant production and the mineralization of plant residues. the size of the global reservoir is estimated at 1200-2000 pg (pg = 10¹⁵ g), two to three times the estimated amount of c in the biomass and two to three ... **litter decomposition and humus characteristics in canadian ...** - litter decomposition and humus characteristics in canadian and german spruce ecosystems: information from tannin analysis and 13c cpmas nmr klaus lorenza*, caroline m. prestonb, stephan raspea, ian k. morrisonc, **review article foliar litter decomposition: a conceptual ...** - of climate on decomposition rate of newly shed plant litter. however, such an effect is not general to all litter species [,] and not to all decomposition stages [,], but the changed substrate composition may dominate decomposition rates at least for some foliar litter species. the influence of the substrate on the decomposition process may thus be such that the proposed climate change and a ... **newly shed litters contain an abundance of extractable ...** - cation in the process of litter decomposition. however, while numerous litter decomposition studies have evaluated the initial values of humus carbon (hc) in newly shed litters at a fixed time (ono et al. 2013, ni et al. 2015), it is still unclear whether any changes occur in the hc in newly shed litters among seasons. the formation and stability of humus partly depend on the recalcitrant ... **a review on litter decomposition by soil fungal community** - decomposition of plant litter is a key step in nutrient recycling. as most of the as most of the plant biomass-derived carbon in the forests is mineralised in the litter layer, an understanding of this process and **linkages between plant litter decomposition, litter ...** - linkages between plant litter decomposition, litter quality, ... placed on the humus surface. litter (1 g, oven-dried), cut into 5 mm fragments, was placed on the surface of the mesh of each petri dish; the dish was then sealed with tape to minimize water loss and incubated for 92 days at ≈ 22 ° c. in addition, to assess interactive litter effects among species from each location when mixed ... **the microbial efficiency matrix stabilization (mems ...** - the rate of plant litter decomposition, little is known about the factors that control the proportion of litter c and n that is eventually incorporated into stable som (prescott, 2010). this stable fraction is a critical determinant of long-term net ecosystem c and n balances from the perspective of c sequestration and reactive n dynamics. above- and below-ground plant litter decomposition ... **spatial separation of litter decomposition and mycorrhizal ...** - litter 2 (mosses) dead but structurally intact parts of mosses fragmented litter the upper half of the organic horizon 15 (7-25) 155 (125-181) 10 humus 1 the upper two-thirds of the lower half of the organic horizon 10 (5-15) 211 (184-247) **16 2 decomposition and mineralization of nutrients from ...** - ative to plant requirements in forest ecosystems. 2.2 decomposition melillo et al. (1989) present a general model of the decomposition process from litter to humus in two phases. during the early ...

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