

## Soil Organic Matter Dynamics Beyond Carbon A Report Of

~~Soil Biology and Organic Matter—Jennifer Moore-Kucera~~

~~Soil Organic Matter: The Living, The Dead & the Very Dead  
Building Soil Organic Matter While Your Crop Is Growing Soil Biology  
and Organic Matter - Ray Weil Microbial Physiology Regulates How  
Much Crop Residue Becomes Soil Organic Matter - Stuart Grandy Soil  
Organic Matter Fractionation~~

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Matter for a Resilient Farming Business Compost Carbon:Nitrogen  
Ratios Made Simple □□ Sand to Soil in 1 Year | Improving Soil Fertility for  
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*Soil Organic Matter Dynamics Beyond Carbon A Report Of ...*  
*Soil organic matter (SOM) turnover increasingly is conceptualized as a tension between accessibility to microorganisms and protection from decomposition via physical and chemical association with minerals in emerging soil biogeochemical theory.*

*Improving understanding of soil organic matter dynamics by ...*  
*Future research should explore modeling soil organic matter dynamics using substrate and spatial limitations, perhaps as a simpler alternative to the current box model approaches, which likely reflect the portions of the soil that are substrate-limited, or the time required to degrade all plant inputs through the microbial "mill", and the relationship between microbial community composition and the efficiency of organic matter degradation versus retention as new microbially constructed ...*

*Soil organic matter dynamics: a biological perspective ...*  
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*Soil Organic Matter Dynamics Beyond Carbon A Report Of*  
*Abstract. The amount of organic matter present in soil and the rate of soil organic matter (SOM) turnover are influenced by agricultural management practices. Because SOM is composed of a series of fractions, management practices will also influence the distribution of organic C and N among SOM pools. Our study examined SOM fractions that are occluded within the aggregate structure.*

*Carbon and Nitrogen Dynamics of Soil Organic Matter ...*

*Abstract Quantification of the movement of residue N through various biologically meaningful soil organic matter (SOM) fractions is essential in low-input tropical cropping systems for the development of management practices aimed at optimizing N-use efficiency.*

*Soil Organic Matter Dynamics after Addition of Nitrogen-15 ...*

*Most agricultural soils are depleted of their soil organic matter (SOM) reserves. A severe loss of SOM content may degrade soil functionality, its capacity for provisioning of essential ecosystem services, and soil health.*

*Soil organic matter content and crop yield | Journal of ...*

*Soil organic matter (SOM) is a complex, naturally occurring material and plays a critical role in soil fertility, the global carbon cycle, and the fate of pollutants in soil. Nuclear magnetic resonance (NMR) spectroscopy is one of the most powerful structural elucidation tools available and has played a quintessential role in unraveling the complex chemistry of SOM.*

*Soil Organic Matter - an overview | ScienceDirect Topics*

*The extent to which ectomycorrhizal (ECM) fungi enable plants to access organic nitrogen (N) bound in soil organic matter (SOM) and transfer this growth-limiting nutrient to their plant host, has important implications for our understanding of plant-fungal interactions, and the cycling and storage of carbon (C) and N in terrestrial ecosystems.*

*Exploring the role of ectomycorrhizal fungi in soil carbon ...*

*Our current understanding of soil organic matter dynamics is synthesized and quantitative predictions made possible with the help of mathematical models. Soil organic matter models are numerous (reviewed in Manzoni and Porporato, 2009). They usually differ in the way they partition soil organic matter into compartments (or "fractions").*

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Beyond clay: towards an improved set of variables for ...

Dr. Cavigelli's research contributes to all areas of FSP research but his primary focus is on agronomic performance and C, N and P dynamics. Nutrient dynamics research currently includes measuring soil inorganic nitrogen dynamics, biogenic greenhouse gas (CO<sub>2</sub>, N<sub>2</sub>O, CH<sub>4</sub>) fluxes, soil and nutrient runoff potentials, and nitrate leaching potential. His goal is to better understand the factors controlling these dynamics and to incorporate these measurements into existing predictive models to ...

Managing Soil Health With Cover Crops: Beyond the Basics

Recent interest in improving soil health and agricultural sustainability recognizes the value of soil organic carbon (SOC) sequestration and nutrient cycling. The main goal of this study was to evaluate the response of various SOC and nitrogen (N) components in semiarid cropping systems transitioning from limited-irrigation to dryland and a restored grassland in the Southern High Plains of USA.

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*Soil Organic Matters*

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