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A Report Of

# Soil Organic Matter Dynamics Beyond Carbon A Report Of

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~~Soil Biology and~~

~~Organic Matter~~

~~Jennifer Moore~~

~~Kucera~~

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Soil Organic Matter:

*Page 5/42*

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Soil Organic

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*

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Soil Organic

*Organic Matter*

*Fractionation*

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Formation of soil  
organic matter via

biochemical and

physical pathways of  
litter mass loss

Increasing Organic

Matter is the Secret of

Soil Health Soil

Organic Carbon—the

treasure beneath our

feet Capturing

Residue to Build Soil

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~~Matter~~ Matter

Building Organic

Matter for Healthy

Soils: An Overview

*Webinar: The Value*

*of Soil Organic Matter*

*for a Resilient*

*Farming Business*

*Compost*

*Carbon:Nitrogen*

*Ratios Made Simple ?*

*Sand to Soil in 1 Year*

*| Improving Soil*

*Fertility for Free! 25*



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*cm TOPSOIL BUILT  
IN 3 YEARS! S4 ?*

*E81 The Living Soil:  
How Unseen*

*Microbes Affect the  
Food We Eat (360*

*Video) ~~Top 10 Ways  
Cover Crops Build~~*

*Soil Health — Rob  
Myers Put carbon*

*where it belongs...*

*back in the soil Life in  
the Soil ADD Organic*

*Matter to the SOIL to*

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Soil Organic

Make LIVING SOIL

Living Soil Film *Soil*

*Organic Matter*

*Accumulation and*

*Oxidation*

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Soil Organic Matters

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Soil Organic Matter:

Humanity's True

Capital ~~Using Manure~~

~~to Increase Soil~~

~~Organic Matter~~

~~u0026 Carbon - John~~

~~Lentz Soil Organic~~

~~Matter: A Fulcrum~~

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Soil Organic

~~with Many Forms and  
Functions — Joel~~

~~Gruver~~ SOIL

ORGANIC MATTER

For AFO, NABARD

etc By ROSHAN

KUMAR SIR Burke's

Backyard, Adding

Organic Matter to Soil

*Organic Matter in Soil*

#1069 (Air Date

9-30-18) Building

Organic Matter #1007

(Air Date 7-23-17)

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Soil Organic Matter

Dynamics Beyond

Conference Report:

Soil organic matter

dynamics: Beyond

carbon: A report of

the 4th International

Symposium on Soil

Organic Matter

Dynamics Article

(PDF Available) in

Carbon Management

4(5):485 ...

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(PDF) Conference

Report: Soil organic  
matter dynamics ...

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dynamics: beyond

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4th International

Symposium on Soil

Organic Matter

Dynamics

Conference Report:

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dynamics: beyond ...

4th International

Symposium on Soil

Organic Matter

Dynamics 6-10 May

2013, Nanjing, China

This conference,

attended by 220

international

scientists, covered a

wide range of studies

from nanoparticle

characterization of

soil organic matter

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(SOM) molecules to ecosystem functions governed by the structure and activity of SOM, and from plot monitoring of soil-air fluxes to simulation and modeling ...

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dynamics: Beyond ...  
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...

Soil organic matter (SOM) turnover increasingly is conceptualized as a tension between accessibility to microorganisms and protection from

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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

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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

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Microbial “mill”, and

the relationship

between microbial

community

composition and the

efficiency of organic

matter degradation

versus retention as

new microbially

constructed ...

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dynamics: a biological

perspective ...

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Matter Dynamics Beyond Carbon  
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Matter we will offer.

Dynamics

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Abstract. The amount of organic matter present in soil and the rate of soil organic matter (SOM) turnover are influenced by agricultural management

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Matter. Because  
Dynamics  
Beyond Carbon  
A Report of  
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.

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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



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Management

practices aimed at  
optimizing N-use  
efficiency.

A Report Of

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

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matter 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

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Soil Organic

Matter 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

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Matter complex chemistry of  
SOM.

Dynamics

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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

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Soil Organic

Matter?limiting  
growth?limiting  
nutrient to their plant  
Dynamics  
Beyond Carbon  
host, has important  
A Report Of  
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

*Page 29/42*

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Soil Organic

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

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Porporato, 2009).

They usually differ in the way they partition soil organic matter into compartments (or “fractions”).

Comparing two mechanistic formalisms for soil organic ...

Improved quantification of the factors controlling soil

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Matter (SOM)  
stabilization at  
continental to global  
scales is needed to  
inform projections of  
the largest actively  
cycling terrestrial  
carbon pool on Earth,  
and its response to  
environmental  
change.

Biogeochemical  
models rely almost  
exclusively on clay



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Matter to modify  
rates of SOM turnover  
and fluxes of climate-  
active CO<sub>2</sub> to the  
atmosphere.

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

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agronomic

performance and C, N  
and P dynamics.

Nutrient dynamics

research currently

includes measuring

soil inorganic nitrogen

dynamics, biogenic

greenhouse gas (CO

2, N 2 O, CH 4)

fluxes, soil and

nutrient runoff

potentials, and nitrate

leaching potential. His

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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

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Matter 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

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Matter from limited-irrigation  
Dynamics to dryland and a  
Beyond Carbon restored grassland in  
A Report Of the Southern High  
Plains of USA.

Soil organic matter  
dynamics in semiarid  
agroecosystems ...

Pond soil cores were  
obtained from six  
ponds in Thailand.

Cores were  
segmented into 2-cm-

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long segments, which were analyzed for texture, bulk density, pH, organic carbon, and major and minor

...

POND SOIL  
CHARACTERISTICS  
AND DYNAMICS OF  
SOIL ORGANIC ...

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*Page 38/42*

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Recognizing the quirk

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Plants are the main  
source of soil organic  
matter in all

ecosystems and are  
thus the main

potential lever to

increase soil organic



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Matter stocks in  
agricultural soils in  
order to improve soil  
fertility and  
productivity, adapt to  
climate change and  
mitigate climate  
change.

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*Page 41/42*

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