



a world of soil... ..a sustainable world! (suggested view with 4 columns)



Earthworms help produce as much grain as Russia, say researchers

[theguardian.com](#)

The humble creatures – which break down organic matter and aerate soils – contribute to as much as 6.5% of the world's grain harvests



The hottest summer in human history – a visual timeline

 [theguardian.com](https://www.theguardian.com)

From June to August 2023, a series of extreme weather events exacerbated by climate breakdown caused death and destruction across the globe



Healthy soil can help grow more food and cut emissions – but government inaction means too much soil is being degraded

 theconversation.com

From policies to support carbon farming, to setting up local 'soil museums', governments need to do much more to protect the soil we rely on for growing food and a healthier life on Earth.

Headlines



Idea of green growth losing traction among climate policy researchers, survey of nearly 800 academics reveals

 theconversation.com

According to a survey of almost 800 climate researchers, 73% are sceptical of the idea of green growth. Instead, approaches such as agrowth and degrowth are gaining ground.



A synergistic future for AI and ecology

pnas.org

Research in both ecology and AI strives for predictive understanding of complex systems, where nonlinearities arise from multidimensional interactions and feedbacks across multiple scales. After a century of

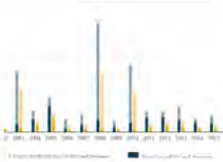


Here's how to fix Australia's approach to soil carbon credits so they really count towards our climate goals

 theconversation.com

A group of agricultural and soil scientists has serious concerns about the way credits are awarded for soil carbon sequestration in Australia.

Politics



The global costs of extreme weather that are attributable to climate change

 nature.com

Neman and Noy estimate the global climate change costs of extreme weather and find that US \$143 B/yr of the costs of extreme events is attributable to climatic change. The majority of this is due to



Climate oscillation impacts on water supply augmentation planning

pnas.org

Large-scale oscillations in the climate system create temporary dry spells lasting years to decades, necessitating costly infrastructure investment to maintain reliable water supply. Here, we develop methods to build



Global heating likely to hit world food supply before 1.5C, says UN expert

 theguardian.com

Water scarcity threatening agriculture faster than expected, warns Cop15 desertification president



The 'plastic paradox': Some clean-up technologies do more harm than good, researchers say

 phys.org

The ever-increasing problem of plastic pollution has prompted widespread efforts to combat it through innovative clean-up technologies. These advancements, however, often seen as the silver bullet to solve our



UN report urges global end to fossil fuel exploration by 2030

 theguardian.com

Climate crisis funding for poor nations should reach \$200bn to \$400bn a year by same date, says pre-Cop28 report



Indoor wood burning raises women's lung cancer risk by 43%, says US study

 theguardian.com

Results from study involving 50,000 women suggest even occasional wood burning can contribute to lung cancer



Deforestation down in Brazil's Amazon

 phys.org

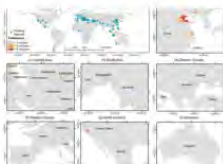
Deforestation in the Brazilian Amazon fell by 59 percent in September compared to the same month last year, official data showed, confirming a positive trend that began after President Luiz Inacio Lula da Silva



New research shows plants could worsen air pollution on a warming planet

 phys.org

It's a simple question that sounds a little like a modest proposal: "Should we cut down all the oak trees?" asks Tom Sharkey, a University Distinguished Professor in the Plant Resilience Institute at Michigan State



Global land subsidence mapping reveals widespread loss of aquifer storage capacity

 nature.com

Groundwater overdraft can lead to land subsidence and groundwater storage loss. Here, the authors develop a machine learning-based method to map subsidence globally, explore subsidence drivers, and

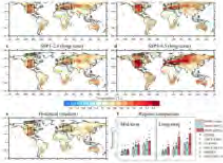
Science, info & more...



More than half of life on Earth is found in soil – here's why that's important

theconversation.com

With more than one species for every person on the planet, soils are the most diverse habitat on Earth.



Soil moisture–atmosphere coupling accelerates global warming

nature.com

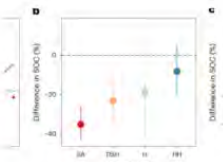
Soil moisture–atmosphere coupling induces non-linear warming via the 'warmer climate – drier soil' feedback, which exerts an accelerating effect on global warming and on extremely high temperatures.



A global meta-analysis of soil organic carbon in the Anthropocene

nature.com

Over 25,000 synthesized experiments identify effective land management practices, such as tree planting and biochar use, that partially mitigate land-use change effects. Yet, indirect climate change effects still pose a



Soil carbon storage capacity of drylands under altered fire regimes

nature.com

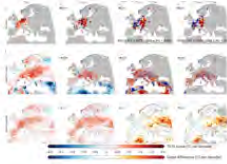
Fire impacts soil organic carbon stocks, in addition to aboveground biomass, yet changes are not well constrained. This study shows that more soil carbon is lost from drier ecosystems than humid ones and that



Plastics can be used more sustainably in agriculture

nature.com

Plastics need to be used more sustainably in agricultural practice, for example by recovery and reuse, and by selected application of safe biodegradable plastics and phasing out of toxic additives, suggests a



Soil heat extremes can outpace air temperature extremes

 nature.com

Changes in air temperature are usually considered for quantifying changes in temperature extremes such as heatwaves. This study shows that the incidence of heat extremes in soils is increasing faster than air



Drought as a possible contributor to the Visigothic Kingdom crisis and Islamic expansion in the Iberian Peninsula

 nature.com

Here, the authors compile pollen records from across Iberia and Morocco, comparing them with other paleohydrological and archaeological data, as well as historical sources. Using these data, they



Chandrayaan-3's measurements of sulfur open the doors for lunar science and exploration

 theconversation.com

India's Chandrayaan-3 rover has found sulfur on the Moon's surface at higher concentrations than previously seen. Sulfur, a useful resource, could pave the way for future Moon bases.

Jobs



Junior Professor in Agro- and Ecosystems Restoration Engineering KU Leuven. Geel, Belgium

kuleuven.be

The successful candidate will develop research activities in the field of Agro- and Ecosystems Restoration Engineering, focussed at reducing land degradation and biodiversity decline and at restoring system health of



Tenure-track position in Sedimentary Geologist - Assistant Professor - University of Ottawa. Ottawa, Canada

researchgate.net

We are looking for a scientist with an outstanding track record for innovative research in modern or ancient sedimentary systems. We are especially interested in candidates with research interests in



Scientific position (M.Sc. Natural Sciences and equivalent). Bundesanstalt für Gewässerkunde. Koblenz, Germany

researchgate.net

The Federal Institute of Hydrology offers a scientific position in the field of Chemistry and Environmental Sciences with a specialization in analytical chemistry starting January 2024 until 31.12.2026.

The thumbnail features a central illustration of a plant growing in a soil cross-section. Labels indicate carbon storage: 750 Gt C in the ATMOSPHERE, 560 Gt C in VEGETATION, and 1417 Gt C in the 1st meter of SOIL. To the right, a globe is surrounded by clouds, with text stating 'and dozens of times the levels of man-made emissions each year'. The top left has a FAO logo and the title 'Soil Organic Carbon – the treasure beneath our feet'. The top right has 'Watch later' and 'Share' buttons. The bottom left says 'Watch on YouTube'.

Soil Organic Carbon – the treasure beneath our feet

YouTube

<http://www.fao.org/soils-portal/en/> An animated illustration of soil organic carbon and its importance for climate action, food production and sustainable dev...

Videos



What is Regenerative Agriculture?

YouTube

Regenerative agriculture is an effective way to restore biodiversity and stabilize the climate, but what exactly is it? This video explores three different reg...



PHC Film: Soil is a living organism

YouTube

A very unique film on how to restore soil health More about Plant Health Cure:
<https://www.phc.eu/en/over-phc/visie-en-missie/>



About 95% of our food comes from soils. But 33% of our soils are degraded, & nutrient imbalance is one of the leading causes. Improving soil nutrient balance is an effective way to help ensure safe, nutritious food for all. #SoilAction

 x.com

Food and Agriculture Organization on X



Wet UK summer brings high hopes for spectacular autumn display

 theguardian.com

National Trust predicts reversal of last year's dull October and November, with show starting in Scotland

Photos (& some news too)



EDITOR'S CHOICE 2023 -  FREE TO READ Access full collection here: <https://t.co/93NmqrtPW> #soil #ResearchPapers

 x.com

European Journal of Soil Science on X



95% of our food is produced on land, with soil and water playing crucial roles. #Soil and water are interconnected, and we must implement integrated management of these precious resources! #WaterAction #SoilAction

 x.com

Food and Agriculture Organization on X



Kenya is an agricultural nation, with over 80% of its population directly and indirectly dependent on agriculture. Unfortunately, food production has failed to keep pace with the increasing human population due to poor soils resulting from land degradation. #soil Video credit



Affluent Farmers Ltd. on X



Tropical soils and their challenges Tocantins, Brazil.



Marcia Calegari on X



What are soil pores?



A blog that explains what soil pores are

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