



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



Why have so many earthquakes hit Turkey and Syria?

[theconversation.com](#)

In a domino effect, earthquakes can cause others to strike: replicas, but also more distant ones.



Neural networks could help predict destructive earthquakes

 phys.org

An artificial neural network has taken its first steps toward predicting the timing and size of future destructive earthquakes, according to RIKEN researchers. Their paper is published in the journal Nature



Why walking through the countryside 'tames' our brain

 theconversation.com

Studies show that contact with nature reduces the activity of the amygdala, a region of the brain linked to intense emotions, stress and anxiety.

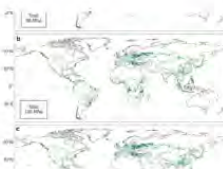
Headlines



Flash floods: why are more of them devastating the world's driest regions?

 nature.com

Shifting weather, changing settlement patterns and a lack of preparedness mean that dryland areas are most at risk from flooding. Researchers need to focus on data collection, early-warning systems,



Potential of land-based climate change mitigation strategies on abandoned cropland

 nature.com

Natural revegetation of abandoned cropland in biodiversity priority areas and afforestation and growth of bioenergy crop in other areas could achieve a climate change mitigation potential of 0.8–4.0 GtCO₂-eq. per



Revealed: 1,000 super-emitting methane leaks risk triggering climate tipping points

 theguardian.com

Vast releases of gas, along with future 'methane bombs', represent huge threat – but curbing emissions would rapidly reduce global heating

Politics



The Forever Pollution Project - Journalists tracking PFAS across Europe

foreverpollution.eu

More than 17 000 sites all over Europe are contaminated by the “forever chemicals” PFAS, an exclusive, months-long investigation from 18 European newsrooms shows. The investigation “The Forever Pollution



Revealed: the US is averaging one chemical accident every two days

theguardian.com

Guardian analysis of data in light of Ohio train derailment shows accidental releases are happening consistently



Yes, we have no tomatoes: Why shelves are emptying in UK stores

theguardian.com

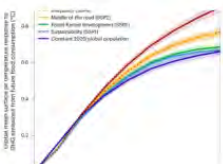
From fresh produce to medicines and computer chips, a cocktail of problems is playing havoc with supply chains



Farmers' union called UK environment targets 'irrational' and 'unachievable'

theguardian.com

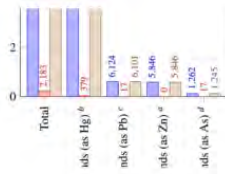
NFU raised questions over water pollution, tree planting and rewilding targets, according to documents



Future warming from global food consumption

nature.com

Although the role of the human diet in climate change has been widely acknowledged, current practices fail to capture its realistic effect on warming. In this Analysis, Ivanovich et al. develop a global food



Environmental ranking of European industrial facilities by toxicity and global warming potentials

[nature.com](#)

Scientific Reports - Environmental ranking of European industrial facilities by toxicity and global warming potentials



Senegalese recyclers seek solutions in fight against plastic

[phys.org](#)

Discarded containers and bags are an eyesore in many towns, while beaches are covered by debris—Senegal's notorious problem of plastic pollution is not going away.



Citizen scientists discover more than 1,000 new burial mounds

[phys.org](#)

Over the past few years, citizen scientists from the Heritage Quest project have scoured the entire Veluwe and Utrechtse Heuvelrug areas for unknown archaeological heritage. One of the results of this research is



No, the Fukushima water release is not going to kill the Pacific Ocean

[theconversation.com](#)

An independent assessment of Japan's plan to release treated radioactive wastewater into the Pacific Ocean, nearly 12 years after the Fukushima nuclear disaster, finds it safe and reasonable.

	Positive	Negative
Internal	Strengths: characteristics that can advance the process	Weaknesses: vulnerabilities that can hinder the process
External	Opportunities: circumstances that may improve the process	Threats: external dangers that may damage the process

Towards Adaptive Governance of Urban Nature-Based Solutions in Europe and Latin America—A Qualitative Exploratory Study

[mdpi.com](#)

The concept and application of nature-based solutions (NBS) have been rapidly progressing in Europe and Latin America, reflecting a transition in the way that urban governance is perceived. There is a large call for the



We need to radically change how we monitor soil health

 febs.org

Sustainable management of soil resources needs a new way to understand and measure soil health. The authors propose a new way of framing future research programmes, as well as acknowledge the

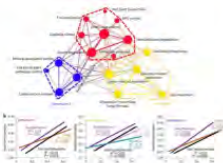
Science, info & more...



Climate-smart infrastructure in the United States —what does it look like and how do we get it built?

iop.org

The United States has committed to reduce its greenhouse gas emissions to 50%–52% below 2005 levels by 2030 and to net-zero emissions by 2050.



Soil organisms are essential for the maintenance of city parks and gardens, study shows

 phys.org

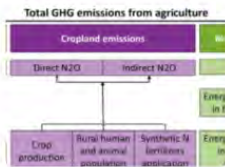
City parks and gardens support a rich and diverse community of soil organisms including bacteria, fungi, protists and invertebrates, which often go unnoticed compared with eye-catching plants and animals.



Extreme wildfires are turning the world's largest forest ecosystem from carbon sink into net-emitter

 phys.org

The vast boreal forests of the Northern Hemisphere stretch from Scandinavia through Siberia, Alaska and Canada. They cover a tenth of the world's land but hold one-third of the land's carbon, stored mainly in



China's greenhouse gas emissions for cropping systems from 1978–2016

nature.com

Measurement(s) greenhouse gas Technology Type(s) digital curation • computational modeling technique Factor Type(s) date • province Sample Characteristic - Environment cultivated environment • climate change



Do trees really stay in touch via a 'wood-wide web'? Here's what the evidence says

phys.org

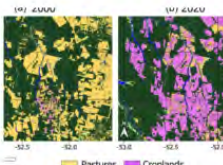
Trees in a forest might look solitary but they are connected underground by a complex network of thread-like strands of fungi, some of which may only be visible to us as mushrooms on the surface. Through these



Global comparison shows that soil translocation boosts nature restoration

phys.org

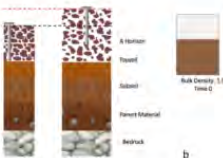
A new study comparing 46 field experiments in 17 countries across four continents clearly spells it out: Areas in need of nature restoration benefit from soil translocation. The global results were collected by an



Land use still matters after deforestation

nature.com

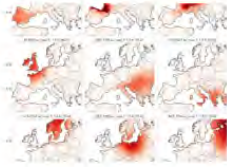
Careful management of deforested Amazonian land cannot replace, but must complement, efforts to preserve the rainforest. Sustainable agricultural practices that promote diverse uses can help minimise



A simple soil mass correction for a more accurate determination of soil carbon stock changes

nature.com

Scientific Reports - A simple soil mass correction for a more accurate determination of soil carbon stock changes



Inter-seasonal connection of typical European heatwave patterns to soil moisture

 nature.com

npj Climate and Atmospheric Science - Inter-seasonal connection of typical European heatwave patterns to soil moisture



Irreversible and Large-Scale Heavy Metal Pollution Arising From Increased Damming and Untreated Water Reuse in the Nile Delta

wiley.com

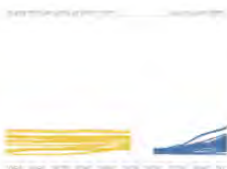
Large-scale heavy metal pollution, coastal erosion and seawater intrusion pose an existential threat to the Nile River Delta and endanger 60 million people in Egypt who depend on its resources for every facet of life



Shifts in flood generation processes exacerbate regional flood anomalies in Europe

 nature.com

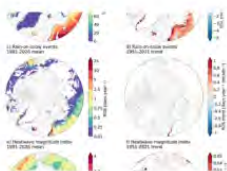
Changes in the processes that can generate floods, such as rain falling on wet rather than dry soil, affect the occurrence of regional floods more than changes in extreme rainfall, according to an analysis of flood



Economic factors influence net carbon emissions of forest bioenergy expansion

 nature.com

Imposing policy constraints on biomass supply may not avoid initial net carbon emissions from forest bioenergy, but economic factors can drive long-term climate benefits, according to a market-based economic model



Bioclimatic atlas of the terrestrial Arctic

 nature.com

Scientific Data - Bioclimatic atlas of the terrestrial Arctic



Treating lunar soil to create fertilizer for growing plants on the moon

 phys.org

Sooner or later, settlers on the moon will have to become farmers. A new ESA Discovery project led by Norway's Solsys Mining is looking into the treatment of lunar soil to create fertilizer for growing plants.



Senior Scientist (80-100 %) - Research Institute of Organic Agriculture FiBL Department of International Cooperation Frick, Switzerland

researchgate.net

Areas of Research: Agricultural Biotechnology Agricultural Science

Jobs



Project Officer - Quantifying and improving soil health in Africa - European Commission, Joint Research Centre (JRC), Ispra, Italy

europa.eu

The jobholder will lead and carry out the scientific research in the project "Quantifying and improving soil health in Africa" (AFSOH), with a focus on three major soil functions: 1) Productivity in the context of food security



Junior Teacher in sustainability - Vrije Universiteit Amsterdam, Netherlands

vu.nl

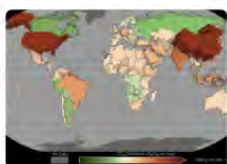
Did you recently graduate and do you like to engage in teaching the topic of sustainability in a dynamic academic environment? Please apply to the Institute for Environmental Studies (IVM) at Vrije Universiteit Amsterdam.



A soil biodiversity course -Soil, a burst of life: the hidden world beneath our feet-

europa.eu

How many organisms live in soil? What do they do? Why would it be important to protect them? Discover and learn everything about soil biodiversity in the free online course "Soil, a burst of life: the hidden world

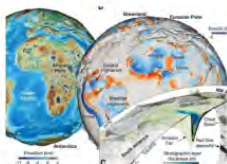


NASA space mission takes stock of carbon dioxide emissions by countries

phys.org

A pilot project has estimated emissions and removals of carbon dioxide in individual nations using satellite measurements. .

Videos



Most detailed geological model reveals Earth's past 100 million years

phys.org

Climate, tectonics and time combine to create powerful forces that craft the face of our planet. Add the gradual sculpting of the Earth's surface by rivers and what to us seems solid as rock is constantly changing.



Zoom into Soil

5 April 2023
12:00 - 13:00



Microplastics

Prof. Matthias Rillig and Dr. Taru Sandén





Northern lights seen across the UK – in pictures

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

The northern lights, or aurora borealis, appeared in the night sky across Britain on Sunday in a display that reached parts of southern England

Photos (& some news too)









Number closed in Bologna (Italy) Mar. 13, 2023. 2:05 PM (CET)

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mail: [fmalucelli \(at\) arpae.it](mailto:fmalucelli@arpae.it)