

a world of soil... ..a sustainable world! CheTerraPesti is a multilingual, "more or less



Four steps for Earth: A holistic approach to saving the planet

 Phys

This decade must be the turning point, where we transform humanity's relationship with nature and put the planet on a path to recovery, argues a global team of researchers in a paper published today [Friday 22 Jan]



'Carbon-neutrality is a fairy tale': how the race for renewables is burning Europe's forests

 the Guardian

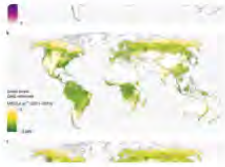
Wood pellets are sold as a clean alternative to coal. But is the subsidised bioenergy boom accelerating the climate crisis?



Why the US rejoining the Paris climate accord matters at home and abroad — 5 scholars explain

 The Conversation

US backing of the Paris Agreement has an influence on food security, health and safety and the future warming of the planet.



Global maps of twenty-first century forest carbon fluxes

 Nature Climate Change

Forest management for climate mitigation plans requires accurate data on carbon fluxes to monitor policy impacts. Between 2001 and 2019, forests were a net sink of carbon globally, although emissions from



"Dati ambientali 2019. La qualità dell'ambiente in Emilia-Romagna". | Disponibile il nuovo Annuario regionale dei dati ambientali di Arpae. Edizione 2020. (in Italian)

 Arpae

È disponibile "Dati ambientali 2019. La qualità dell'ambiente in Emilia-Romagna", diciottesima edizione dell'annuario che raccoglie e riassume i principali dati relativi all'ambiente in regione.



Early COVID-19 lockdowns had less impact on urban air quality than first believed

 Phys

The first COVID-19 lockdowns led to significant changes in urban air pollution levels around the world, but the changes were smaller than expected—a new study reveals.



Reducing air pollution 'could prevent 50,000 EU deaths'

 Phys

Limiting air pollution to levels recommended by the World Health Organization could prevent more than 50,000 deaths in Europe annually, according to research published Wednesday that called for urgent action.



Mexico City ban on single-use plastics takes effect

 Phys

A broad ban on single-use containers, forks, straws and other ubiquitous items takes effect in Mexico's capital, one of the world's largest cities, after more than a year of preparation.



Countries adapting too slowly to climate breakdown, UN warns

 the Guardian

Report says not enough funding is being made available to deal with effects of extreme weather



Health crisis: Up to a billion tons of waste potentially burned in the open every year

 Phys

As much as one billion tons of waste could be burned in open and uncontrolled fires around the world each year, according to one estimate - close to half of all the municipal solid waste generated on Earth.



New climate change study: Number of people suffering extreme droughts will double

 Phys

Michigan State University is leading a global research effort to offer the first worldwide view of how climate change could affect water availability and drought severity in the decades to come.



Two-thirds of Earth's land is on pace to lose water as the climate warms – that's a problem for people, crops and forests

 The Conversation

The projected loss of water storage on land as global temperatures rise is especially alarming in the Southern Hemisphere – and in parts of the US.



Outlook from the soil perspective of urban expansion and food security

Heliyon

Land take; Soil productivity index; Built-up area; Global human settlement layer



How creating wildlife crossings can help reindeer, bears – and even crabs

the Guardian

Sweden's announcement this week that it is to build a series of animal bridges is the latest in global efforts to help wildlife navigate busy roads



Reflections on Earth surface research

Nature Reviews Earth & Environment

Irasema Alcántara-Ayala. The current pace of global environmental change mirrors an era in which landscape domains are inseparable from humankind, and anthropogenic intervention influences surface processes.



How working from home could revitalise rust belt cities

The Conversation

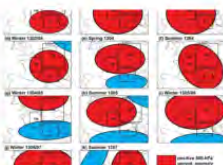
Hull-office? Working from Stoke? How the pandemic could turn around decades of decline.



Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands

Nature Communications

Grasslands, and the livestock that live there, are dynamic sources and sinks of greenhouse gases, but what controls these fluxes remains poorly characterized. Here the authors show that on the global level, grasslands



Drought of the century in the Middle Ages—with parallels to climate change today?

Phys

The transition from the Medieval Warm Period to the Little Ice Age was apparently accompanied by severe droughts between 1302 and 1307 in Europe; this preceded the wet and cold phase of the 1310s and the



Temporal changes in global soil respiration since 1987

 Nature Communications

Soils hold massive amounts of carbon that hangs in the balance of microbial respiration and climate warming. Here the authors analyze a global dataset starting in 1987 and find through modeling that though



The Earth has been spinning faster lately

 Phys

Scientists around the world have noted that the Earth has been spinning on its axis faster lately-the fastest ever recorded. Several scientists have spoken to the press about the unusual phenomenon, with some pointing



Air pollution linked to higher risk of irreversible sight loss

 the Guardian

Large UK study found small pollution rise associated with more cases of age-related macular degeneration



Mutant roots reveal how we can grow crops in damaged soils

 The Conversation

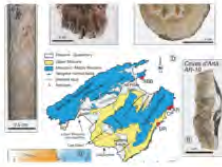
Researchers have unearthed a 'biological switch' which could boost crop yield worldwide.



Mercury content in the European Union topsoil - EUROPEAN SOIL DATA CENTRE (ESDAC)

 Europa

Topsoil Hg concentrations ($\mu\text{g kg}^{-1}$) across 26 EU countries estimated by deep neural network - regression kriging. The assessment is based on 21591 LUCAS samples (0-20cm) from 26 European Union countries.



Sea-level stands from the Western Mediterranean over the past 6.5 million years

 Scientific Reports

Sea-level reconstructions are important for understanding past ice sheet variability and its response to past and future warming. Here we present Neogene and Quaternary sea-level snapshots using phreatic overgrowths



Sur Terre, la masse de l'artificiel égale désormais la masse du vivant (in French)

 The Conversation

Le cauchemar d'une planète artificielle n'est plus un scénario de science-fiction.



How does Wi-Fi work? An electrical engineer explains

 The Conversation

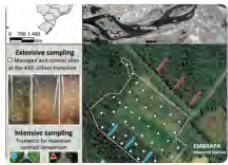
Wi-Fi has become a fundamental part of modern digital life, but its foundation is the same as the technology that allowed your great-grandparents to listen to their favorite radio programs.



4th INTERNATIONAL CONFERENCE OF YOUNG SCIENTISTS, 27-30 June 2021

 Google

On behalf of the organizing committee, it is our pleasure to invite you to attend 4th International Conference of Young Scientists Soil in the Environment and to the city of Toruń. We invite to beautiful UNESCO



A new hypothesis for the origin of Amazonian Dark Earths

 Nature Communications

Amazonian Dark Earth is soil that has had mysteriously high fertility since ancient times, despite the fact that surrounding soils have very low nutrients. Here the authors' use of isotope reconstructions indicate that



2020 DECEMBER | Soil Care Network

Soil Care Network

The Soil Care Network is an interdisciplinary, global community of scholars and practitioners animated by the love of, fascination with, and dedication to soils.



Solar panels capture more sunlight with capsaicin - the chemical that makes chili peppers spicy

 The Conversation

Chemicals found in food and solar cell technology have an interesting history – as my own research shows.



Tenure Track Position for a Head of Working Group (m/f/d) on "Soil Erosion & Landscape Functioning". Müncheberg, Germany

researchgate.net

Leibniz Centre for Agricultural Landscape Research Research Area 1
"Landscape Functioning"



UNIVERSITÉ
LIBRE
DE BRUXELLES

Full-time Professorship in Agroecology and crop/soil microbiology. Brussels, Belgium

Ulb

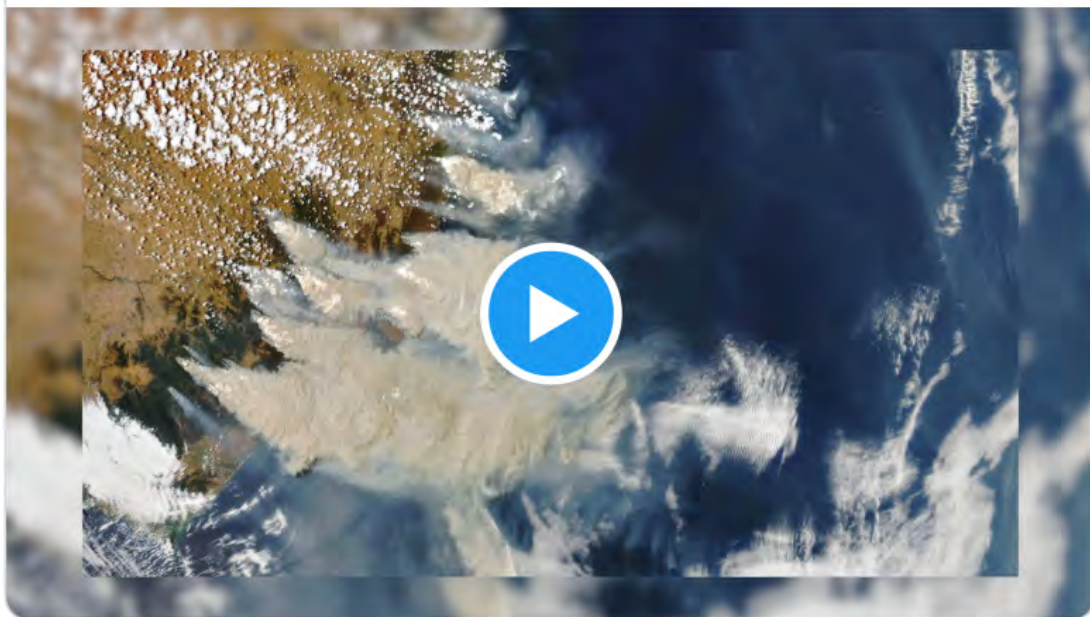
Université Libre de Bruxelles Agroecology Lab - Brussels Bioengineering School



Associate professor in Earth science. Umeå, Sweden

Umu

The Department of Ecology and Environment Science currently has 140 employees. The department's main duties are undergraduate education, research and collaboration with the surrounding society. The research is



Why soil is one of the most amazing things on Earth - BBC Ideas

Bbc

Soil is underappreciated. But it's vital in so many ways. Here's a look at the magic of soil.



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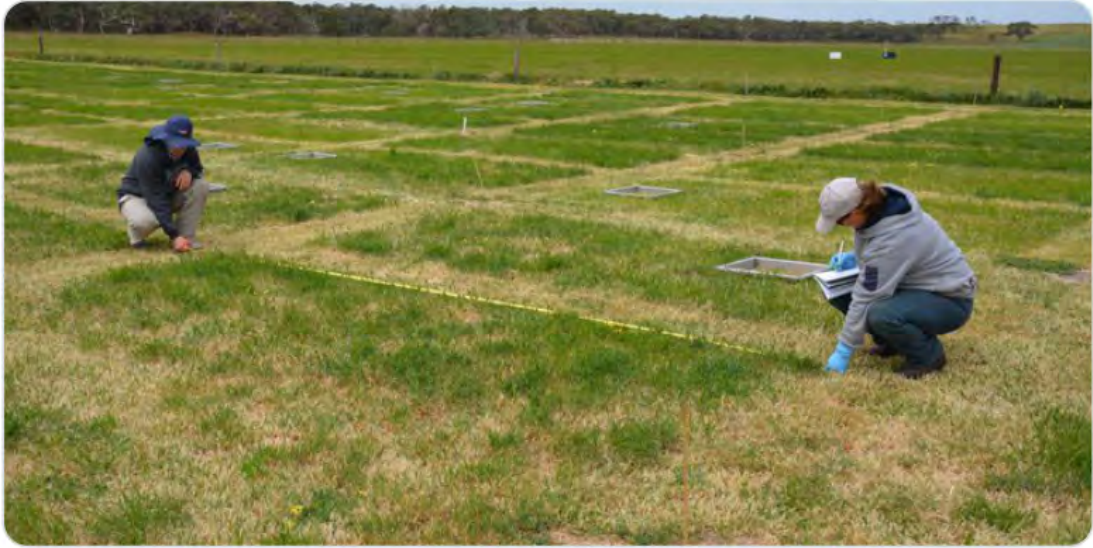


January: Soils Sustain Life

 YouTube

Soil is one of the four things we cannot live without. Soil, Water, Air and Sunlight are needed for all life as we know it. Soils cover the upper crust of th...







Food and Agriculture
Organization of the
United Nations

Soil biodiversity:

a nature-based solution



Supports
nutrient cycling,
plant growth and productivity



Forms
soil and
improves
soil structure



Is a source
of medicines and
supports
human health



Contributes
to remediate soil
pollution



Helps
to mitigate
and adapt
to climate
change



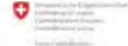
Enhances
water retention
and purification



Improves
resilience against
pests and diseases

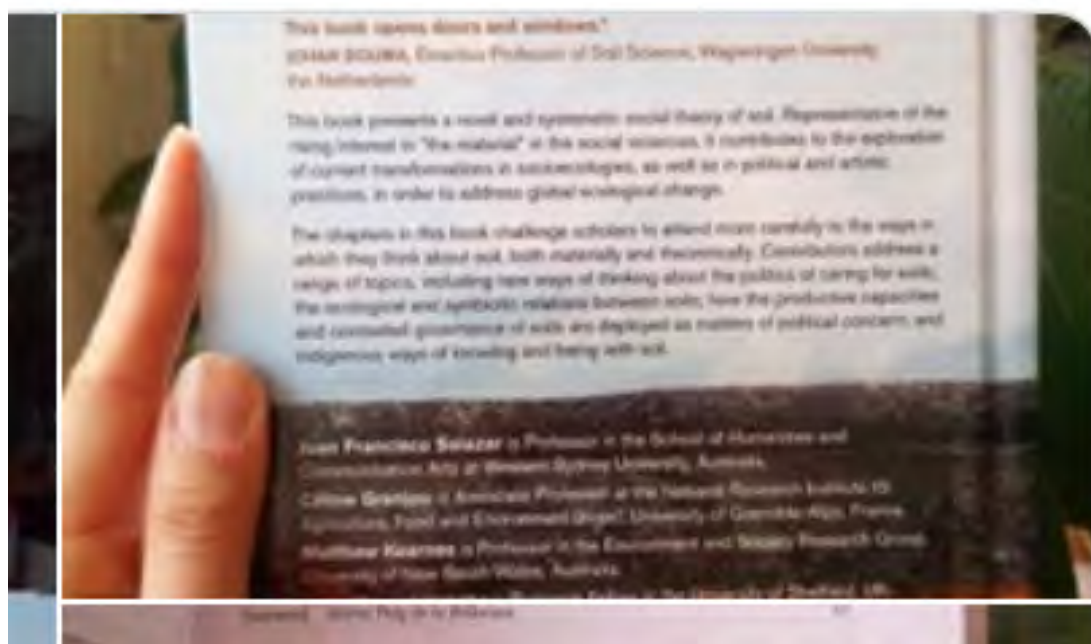


Maintains
and restores
ecosystems



**KEEP SOIL ALIVE
PROTECT SOIL
BIODIVERSITY**





University of New South Wales, Australia Journal of Soil and Water Conservation	
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