

CheTerraPesti #97 - The earth beneath your feet - A soil magazine. Sept. 5, 2024

57 Items

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



Crackles, clicks and pops – now we can monitor the 'heartbeat' of soil

[theconversation.com](#)

By listening to the "heartbeat" or soundscape of soil, we can learn more about its condition. Think of poor soil as a lifeless party. Healthy soil is where you'll find the good vibes and chatter.



Urban growth is leading to more intense droughts for most of the world's cities – and Sydney is a case study for areas at risk

 theconversation.com

New research underscores the need to counter the effects of urban growth on drought by ensuring cities have enough green spaces to keep them liveable.

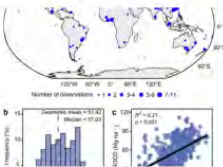


CURIOSOIL - Awakening Soil Curiosity to Catalyse Soil Literacy

 curiosoil.eu

CURIOSOIL addresses the critical need for a better understanding of soil amid increasing human pressures on this essential resource.

Headlines



Global distribution of surface soil organic carbon in urban greenspaces

 nature.com

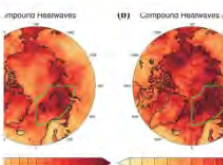
Using observed data, Guo et al. present a comprehensive assessment of soil organic carbon density and stock in global urban greenspaces. This study elucidates the global distribution of soil organic carbon in urban



The climate is changing so fast that we haven't seen how bad extreme weather could get

 theconversation.com

Record heat, storms and floods reveal new extremes made possible by climate change.



Arctic heat waves linked to sea ice loss

sciencedirect.com

The frequency of heatwaves in the Arctic is on the rise under global warming. These occurrences not only profoundly impact the local ecological enviro...

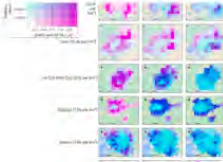


How is the Anthropocene helping to rethink the contemporary issue of environmental degradation?

 phys.org

The Anthropocene is a proposed geological epoch whereby humans are deemed to be the primary drivers of ecological and environmental change, through activities that lead to environmental degradation. This

Politics



Global urban structural growth shows a profound shift from spreading out to building up

 nature.com

The changing built structure of cities reflects and affects social and environmental forces. Combining remotely sensed and other data, this study finds a global shift in the past three decades, with cities growing



Planning the urban climate of the future

 phys.org

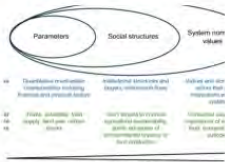
What a tree needs to grow and how it affects its surroundings vary from species to species. This makes it increasingly important for cities to adapt the urban tree cover to local conditions.



How your festival wee could disrupt soil health and water quality

 theconversation.com

Festivalgoers could be adding nitrogen and phosphorous to the rural environment at concentrated hotspots by weeing in the open air.



Leverage points for the uptake of organic food production and consumption in the United Kingdom

nature.com

Short-term economic thinking, landowner engagement with organic farming, and consumers' willingness to pay for organic food are the most influential factors in organic food production and consumption scale-up,



Citizen scientists can help save Australia's threatened species if we give them more direction

theconversation.com

New research examines how citizen science data contributes to decisions by governments and conservation organisations about which species are at risk of extinction, and how they can be conserved.

Science, info & more...



Polaris Dawn: the first spacewalk by commercial astronauts will be historic, but the mission carries risks

theconversation.com

The SpaceX-backed mission has no professional astronauts aboard.



Microplastics are everywhere, but are they harming us?

phys.org

Microplastics have been found in the ocean and the air, in our food and water. They have been found in a wide range of body tissues, including the heart, liver, kidneys and even testicles.



Climate-smart agricultural practices, productivity, and food-nutrition security in rural South Africa: A dataset of smallholder maize farmers

sciencedirect.com

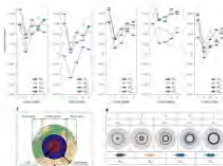
The intensifying impacts of climate change have adversely affected smallholder maize farmers, leading to low productivity, decreased incomes, and food...



Effects of management practices on the ecosystem-service multifunctionality of temperate grasslands

nature.com

Sustainable agricultural policies need to be practically assessed. Here, the authors assess how management practices affect ecosystem services in Swiss agricultural grasslands showing that organic farming has a lesser



Mitigating urban heat island through neighboring rural land cover

nature.com

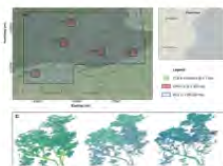
This study considers how urban heat islands are affected by rural regions neighboring cities, which may be a source of cooling for city centers. An analysis of 30 Chinese cities from 2000 to 2020 makes advances in



Sustainable land management enhances ecological and economic multifunctionality under ambient and future climate

nature.com

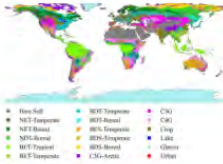
Land management impacts ecosystem functions. Here, the authors conduct field experiments in Germany assessing ecosystem variables in cropland and grasslands showing that sustainable agricultural practices



Multi-scale lidar measurements suggest miombo woodlands contain substantially more carbon than thought

nature.com

The carbon stored in Africa's miombo woodlands may require a significant upward revision owing to the contribution from large trees, according to 3D multi-scale lidar measurements acquired from 50 kha of intact and



High-resolution land surface dataset provides Earth system modeling details

copernicus.org

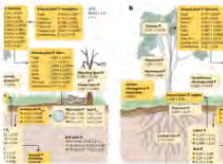
Abstract. Earth system models (ESMs) are progressively advancing towards the kilometer scale ("k-scale"). However, the surface parameters for land surface mode...



Forests destroyed by wildfires emit carbon long after the flames die

sciencedirect.com

Wildfire is one of the most important disturbances affecting boreal forests. Most previous research on boreal forest fires has occurred in North Ameri...



Microbial competition for phosphorus limits the CO2 response of a mature forest

nature.com

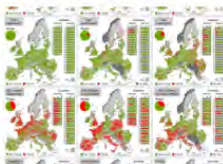
Microbial pre-emption of mineralized soil P limits the capacity of trees for increased P uptake and assimilation under elevated CO2 and therefore restricts their capacity to sequester extra C.



Carbon emissions from forest soil will likely grow with rising temperatures

phys.org

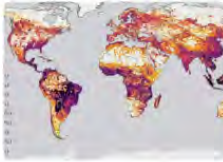
The soils of northern forests are key reservoirs that help keep the carbon dioxide that trees inhale and use for photosynthesis from making it back into the atmosphere. But a unique experiment led by Peter Reich of the



A unifying modelling of multiple land degradation pathways in Europe

nature.com

Land degradation is a complex socio-environmental threat, which generally occurs as multiple concurrent pathways that remain largely unexplored in Europe. Here we present an unprecedented analysis of land



Mapping global land conversion pressure to support conservation planning

nature.com

Proactively identifying where land conversion might occur is critical to targeted and effective conservation planning. Previous efforts to map future habitat loss have largely focused on forested systems and have



Sustainable agricultural systems reduce greenhouse gas emissions

phys.org

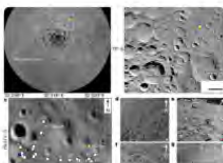
A study conducted at the University of São Paulo (USP) has investigated the extent to which climate-smart agriculture (CSA), an integrated approach involving methods and practices designed to make farming



Greenland fossil discovery stuns scientists and confirms that center of ice sheet melted in recent past

pnas.org

The persistence and size of the Greenland Ice Sheet (GrIS) through the Pleistocene is uncertain. This is important because reconstructing changes in the GrIS determines its contribution to sea level rise during



First analysis of soil near the moon's south pole suggests its surface was once covered in molten magma

phys.org

India's Chandrayaan-3 mission was launched last summer and its Vikram lander touched down on the moon's surface last August. Shortly thereafter, it released a rover called Pragyan. Since that time, the rover



Study refines understanding of factors influencing global N₂O emissions from agricultural soils

phys.org

Global atmospheric N₂O concentration has surged by more than 23% since the pre-industrial era, rising from 270 parts per billion (ppb) in 1750 to 336 ppb in 2022. Approximately two-thirds of these emissions come

Jobs



University Assistant postdoctoral physical geography, University of Vienna, Austria

 univie.ac.at

The position is assigned to the research group Physical Geography, which is distinguished by proven research in the geomorphic domains of landslides, "human impact" on geosystems and spatial modeling of



niversity
ohammed VI
olytechnic

Postdoctoral Researcher Position in Climate Change Adaptation Strategies for African Agriculture. Mohammed VI Polytechnic University Morocco

researchgate.net

Our laboratory, Center for Remote Sensing Applications (CRSA), is seeking a highly motivated postdoctoral researcher to join our team working on a critical project focused on climate change adaptation in African

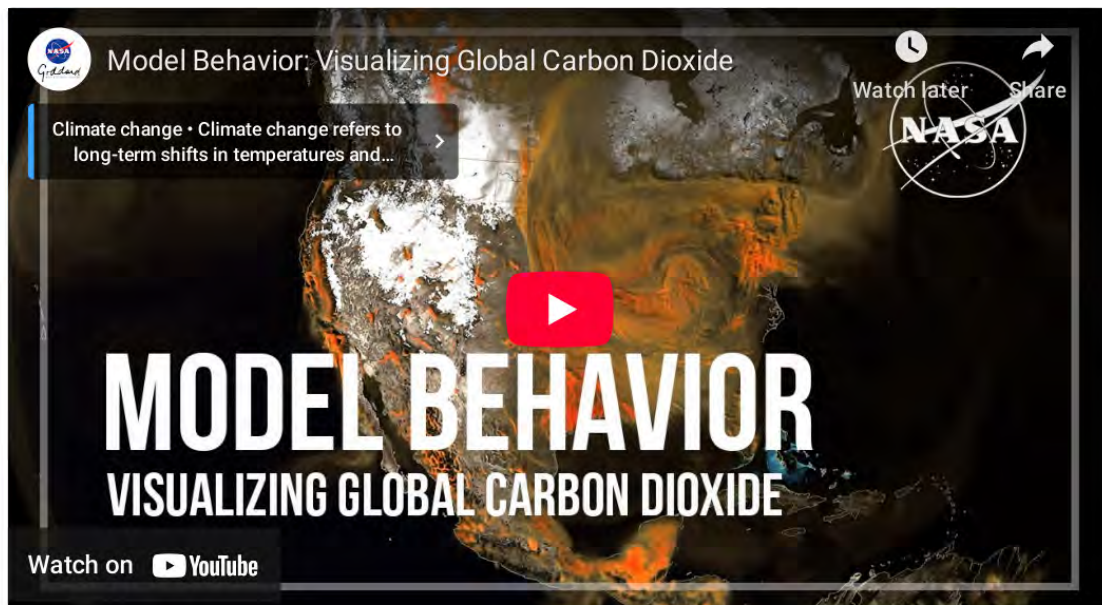


Tenure-track Assistant or Associate Professor in Urban Sustainability, Yale University, USA

interfolio.com

The Yale School of the Environment invites applications for a tenure-track Assistant or Associate Professor (without tenure) working at the interface of cities and climate change.

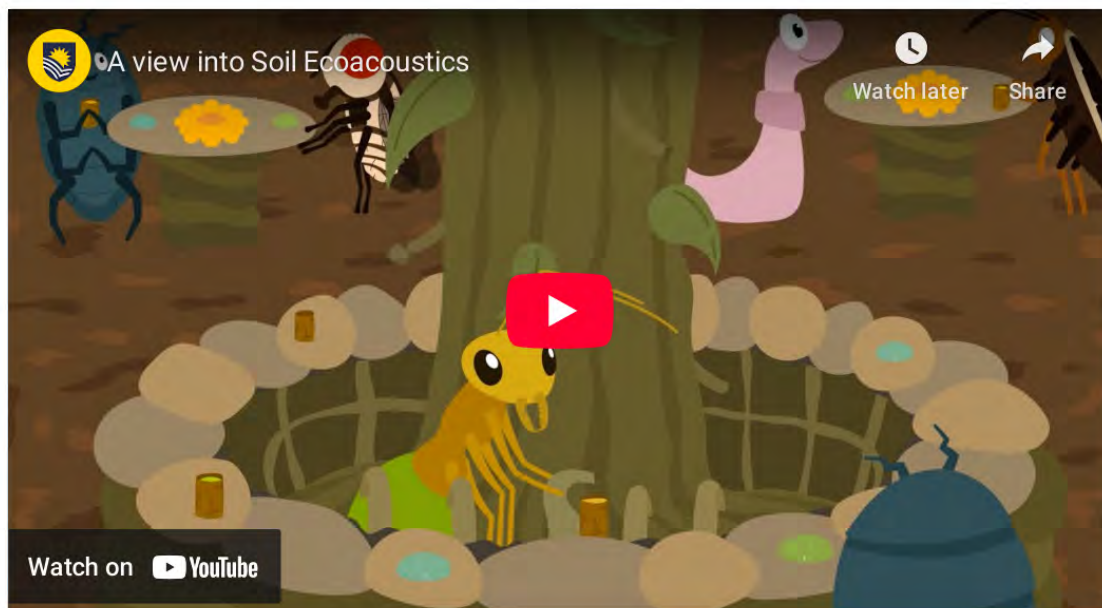
Videos



Model Behavior: Visualizing Global Carbon Dioxide

YouTube

This global map of carbon dioxide was created using a model called GEOS, short for the Goddard Earth Observing System. GEOS is a high-resolution weather reanal...



A view into Soil Ecoacoustics

YouTube

Barely audible to human ears, healthy soils produce a cacophony of sounds in many forms – a bit like an underground rave concert of bubbles and clicks. Spe...



Awakening Soil Curiosity to Catalyse Soil Literacy | Introducing CURIOSOIL

YouTube

More than 60% of soil ecosystems in Europe are threatened by degradation. CURIOSOIL seeks to address this crisis by increasing soil literacy through collaborat...



Week in wildlife in pictures: a sea lion takeover, an unlucky caiman and a hungry gull

theguardian.com

The best of this week's wildlife photographs from around the world

Soil Solutions to Climate Problems - Narrated by Michael...Watch laterShare

Climate change • Climate change refers to long-term shifts in temperatures and...



Watch on  **YouTube**

Soil Solutions to Climate Problems - Narrated by Michael Pollan

 YouTube

Narrated by Michael Pollan To learn more visit: <http://soilsolution.org> A powerful solution to the climate crisis can be found right beneath our feet—in the ...

Photos (& some news too)



Reel by @soilassociation on Instagram. Lady Eve Balfour, founder of the Soil Association knew that the answer was in the soil long before many would listen.

 Instagram

Number closed in Bologna (Italy) Sept. 5, 2024. 5:22 AM (CET)

Contact us:

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