

CheTerraPesti #95 - The earth beneath your feet - A soil magazine. Jan. 12, 2024

51 Items

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



Headlines



The Sahara Desert used to be a green savannah

 theconversation.com

The Sahara Desert is green and vegetated every 21,000 years. A climate model shows why.



2023 hottest recorded year as Earth nears key limit

 phys.org

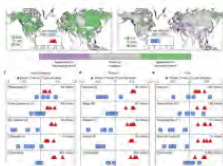
The year of 2023 was the hottest on record, with the increase in Earth's surface temperature nearly crossing the critical threshold of 1.5 degrees Celsius, EU climate monitors said Tuesday.



Food, soil, water: how the extinction of insects would transform our planet

 theguardian.com

A new study doubles the number of species at risk of extinction to 2m, driven by the latest data on insects. Losing these tiny creatures would have huge implications for life on Earth



Evidence of human influence on Northern Hemisphere snow loss

 nature.com

Snowpack reconstructions for major river basins in the Northern Hemisphere reveal that the snowpack has declined in almost half of the basins, with roughly one-third of the declines attributable to human-



Why some people don't trust science – and how to change their minds

 theconversation.com

People who are suspicious of science often assume they are understand it well – and that others agree with them.



How second world war bomb rubble was used to make 135 football pitches in east London

 theconversation.com

East London's fabled football destination is the best example of how wartime rubble was repurposed to improve the city for its residents.



Is the world running out of freshwater?

 phys.org

More than half of the world's population faces water scarcity for at least one month a year.



Ancient Roman wine production may hold clues for battling climate change

 theconversation.com

Roman agricultural techniques may help wine producers to tackle the impacts of climate change, and even the UN is getting on board.



Leggere i dati e farne buon uso: Suolo (in italian)

 arpa.it

Il suolo è una risorsa non rinnovabile. Ma come possiamo proteggerla?



How drinking sustainable wine can help vineyards and the planet

 theconversation.com

The wine industry has a major sustainability problem. Informed consumer choice can help drive real change.

Politics



The zaï technique: how farmers in the Sahel grow crops with little to no water

 theconversation.com

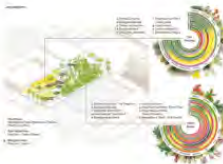
This technique involves making regular holes in a field, sowing in the dry season and harnessing insects as fertilisers.



Supercharged heat waves like Washington's deadliest will strike harder and more often

 phys.org

North America's 2021 heat wave was Washington's deadliest weather-related disaster, claiming over 100 lives in the evergreen state and many others in neighboring regions. Scientists not only suggest that such heat



Creation of a climate adapted urban oasis through the hyperlocal lens—Palm Springs Downtown Park in California, USA

 phys.org

Palm Springs Downtown Park is an inviting 1.5-acre urban oasis for residents and visitors to Palm Springs, a design-forward desert destination nestled along the base of the San Jacinto Mountains along



How to make your life greener in 2024

 theconversation.com

It's often challenging to live up to your new year's resolutions – but becoming greener is surprisingly easy.

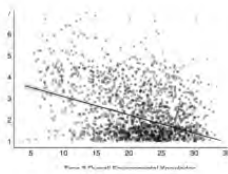


Maximizing circular economy strategies for rare earth elements supply

 phys.org

Circular economy strategies could significantly boost the low-carbon global transition and make sure that rare earth elements (REE) do last longer, reveals new study published in Nature Geoscience.

Science, info & more...



Environmental knowledge is inversely associated with climate change anxiety - Climatic Change

springer.com

This study tests the hypotheses that overall environmental knowledge and climate-specific knowledge are inversely related to climate change anxiety, such that people who know more (less) about the environment in



Live Christmas trees affect indoor air chemistry, researchers find

phys.org

Every holiday season, Americans buy nearly 30 million live Christmas trees. Many families enjoy not only having a live tree inside their homes but also smelling the fresh fragrance it creates. That smell comes from chemicals



Greenhouse vegetable production emits high levels of nitrous oxide

phys.org

A new study has found that greenhouse vegetable production (GVP) systems are major sources of nitrous oxide (N₂O) emissions, a potent greenhouse gas.



New approach into human health risk assessment associated with heavy metals in surface water and groundwater using Monte Carlo Method

nature.com

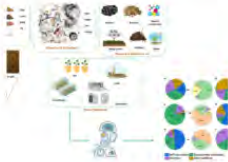
Scientific Reports - New approach into human health risk assessment associated with heavy metals in surface water and groundwater using Monte Carlo Method



Earthworms are our friends – but they will make the climate crisis worse if we're not careful

theconversation.com

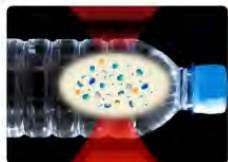
Thawing permafrost in the far north is an inviting prospect for invertebrate burrowers.



AI predicts the influence of microplastics on soil properties

phys.org

Plastic waste and its buildup in nature has become a major environmental concern in recent times. While plastic pollution in the oceans is undoubtedly a problem, the presence of plastics in soils around the world



Bottled water can contain hundreds of thousands of previously uncounted tiny plastic bits, study finds

phys.org

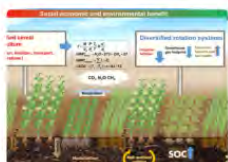
In recent years, there has been rising concern that tiny particles known as microplastics are showing up basically everywhere on Earth, from polar ice to soil, drinking water and food. Formed when plastics break down



Air pollution reductions caused by the COVID-19 lockdown open up a way to preserve the Himalayan glaciers

copernicus.org

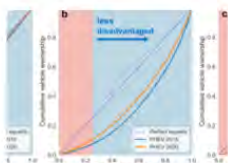
Abstract. The rapid melting of glaciers in the Hindu Kush Himalayas (HKH) during recent decades poses an alarming threat to water security for larger parts of Asia. If this melting persists, the entirety of the Himalayan



Diversifying crop rotation increases food production, reduces net greenhouse gas emissions and improves soil health

nature.com

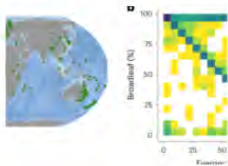
Food production systems need to balance yield and sustainability. Here, the authors conduct 6 years long crop diversification field experiments in the North China Plain, showing that diversifying cereal monocultures with



California's zero-emission vehicle adoption brings air quality benefits yet equity gaps persist

nature.com

Zero-emission vehicle adoption brings near-roadway air quality benefits to all communities in California, yet equity gaps persist in disadvantaged communities, calling for targeted policies.



The global biogeography of tree leaf form and habit

 nature.com

Integrating inventory data with machine learning models reveals the global composition of tree types—needle-leaved evergreen individuals dominate, followed by broadleaved evergreen and deciduous trees—and



Ancient cities provide key datasets for urban planning, policy and predictions in the Anthropocene

 nature.com

Humanity is increasingly urban, but urban living is not new, and past examples showcase striking variation. This Review synthesizes methodological and other advances in archeology to illustrate how



Climate Scientist - Centre for Maritime Research and Experimentation (CMRE), La Spezia, Italy

taleo.net

The position is within the Research Division (RD) which is responsible for identifying, developing and delivering Science & Technology (S&T) solutions to the needs of the Alliance in the maritime domain.

Jobs



UNIVERSITY
OF HELSINKI

Professor or Assistant/Associate Professor in Terrestrial Ecosystem Ecology, University of Helsinki, Finland

 helsinki.fi

Professor or Assistant/Associate Professor in Terrestrial Ecosystem Ecology



Senior Researcher - Agroecology - International Water Management Institute, Colombo, Sri Lanka

 workable.com

The International Water Management Institute (IWMI), a CGIAR Research Center is seeking an innovative & multi skilled candidate to join its Headquarters in Colombo, Sri Lanka.



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

 YouTube

Soil is underappreciated. But it's vital in so many ways. Here's a look at the importance of soil - and why soil matters so much. This was made in partnership...



Video unavailable

This video is unavailable



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 the ...

Videos



Bean Time-Lapse - 25 days | Soil cross section

YouTube

Kidney bean time lapse with soil cross section. Showing how roots and upper part of plant grows. Play speed - 17280x (one shot every 9 minutes 36 seconds play...



Let's transform our agrifood systems for:

◆ Better production ◆ Better nutrition ◆ Better environment ◆ Better life, leaving no one behind. A sustainable & food secure world for all is possible if we work together. #4Bettters

x.com

Food and Agriculture Organization (@FAO) on X



Over 15 years now working on soil life, sometimes still wondering: what is soil biodiversity? 🦉 🤔 I wrote a piece about that some time ago ➡ <https://t.co/ngGyyWG50k>

x.com

alberto_orgiazzi (@ultimoalbero) on X

Photos (& some news too)



Every 5 seconds, the equivalent of one soccer pitch of #soil erodes. Here are 3 reasons why we need to protect our soils 🙌

 x.com

Food and Agriculture Organization (@FAO) on X



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. #Soils4Nutrition

 x.com

Food and Agriculture Organization (@FAO) on X



Evidence grows of air pollution link with dementia and stroke risk <https://t.co/8l31RVx1Vp>

 x.com

Guardian Environment (@guardianeco) on X

Number closed in Bologna (Italy) Jan 12, 2024. 05:44 PM (CET)

Contact us:

X (Twitter) at @cheterrapesti

Facebook at CheTerraPesti - The earth beneath your feet

mail: fmalucelli (at) arpae.it