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#4 Physical Science March 2013 Paper

"Peptoids destroy the membranes, not just of herpes but of other viruses as well. This should give them wide applicability, perhaps even against certain deadly viral infections that currently have no ...

What if we could give viruses a one-two punch?

An " art-based social experiment " involving non-fungible tokens (NFTs) created by the celebrated British artist Damien Hirst was officially kicked off on Wednesday. Hirst, who is probably most famous ...

Damien Hirst ' s NFT Experiment Explores Burning Question

Using Argonne National Laboratory ' s Advanced Photon Source, researchers have determined the structure of an enzyme that plays a key role in the spread of cancer cells. Chances are, every one of us has ...

Enzyme Structure Provides a Promising Pathway to New Cancer Treatments

A prenatal test used worldwide sends gene data of pregnant women to the company that developed it with China's military. The U.S. sees a security risk.

China ' s gene giant harvests data from millions of women

To understand how the University of Washington's transition to online-only classes affected college students' mental health in the spring of 2020, UW researchers surveyed 147 UW undergraduates over ...

From 'distress' to 'unscathed' -- mental health of UW students during spring 2020

Magnetar SGR1935+2154 is currently a unique object in our own Milky Way. It is the only known source of fast-radio bursts (FRBs) in our galaxy, as well as ...

Astronomers Accurately Predict Timing Of Gamma-Ray Bursts From A Magnetar

The IPCC has already released five assessment reports and is currently completing its Sixth Assessment (AR6), with the release of the first part of the report, on the physical science of climate ...

Climate explained: how the IPCC reaches scientific consensus on climate change

In 2020, the FDA banned " electric stimulation devices " (ESDs), that is, devices delivering an electric shock to the skin and used to control self-harming and aggressive behavior in humans. The Jud ...

Court overturns FDA ban on electric shock device used on special needs students

The research team including Anja Heilmann, lead author of the paper and an ... guardians from giving physical punishment to children. The National Policy for Children 2013 states that in education ...

Physical Punishment Does Not Improve Children's Behaviour, Instead Makes It Worse: Lancet Study

Most likely, the pandemic will not end with a bang—we ' ll be dealing with some version of it for years to come. As we slowly adapt to our new normal, we ' ll embrace some changes and resent others. A few ...

The Pandemic Made Science More Accessible Than Ever. Let ' s Keep It That Way.

Bik said that the incident made many people worry that "all science papers ... role by accident in 2013, when she did an internet search of a sentence from one of her papers.

Science under scrutiny: COVID crisis throws spotlight on scientific research

A big, juicy exhibition at the Virginia Museum of Fine Arts turns an embracing eye on Black artists in the American South.

Art Meets Its Soundtrack Deep in ' The Dirty South '

When Stephen Hawking died in March 2018 ... s also a note that accompanied an important paper on black holes that Hawking sent to the science journal Nature in 1974. " As rumours about my ...

Cambridge University Is Hiring an Archivist to Catalog 160 Boxes of Stephen Hawking ' s Work

Croatian police have detained several people over incidents during and after this weekend ' s Pride march in the capital of Zagreb. The incidents included verbal and ...

Croatia police detain several over Pride march incidents

NEW DELHI: Indian Institute of Science ... March 20, 2021. An All India Rank (AIR) has been assigned to all the candidates in the merit list, based on their performance in the specific test paper.

JAM 2021 first admission list today at jam.iisc.ac.in, here's direct link

The University of California, Davis today (June 29) named Estella Atekwana, a dean and geophysicist from University of Delaware, as new dean of the College of Letters and Science (L&S), the ...

U.S. Environmental Protection Agency (EPA) today announced the release of a new report on the progress of the agency's efforts to address climate change. The report, titled "Progress Report on Climate Change," outlines the agency's work to reduce greenhouse gas emissions and protect the environment. The report also highlights the agency's efforts to promote clean energy and sustainable development.

The perseverance of our natural environment has become a critical objective of environmental scientists, business owners, and citizens alike. Because we depend on natural resources to survive, uncovering methods for preserving and maintaining these resources has become a focal point to ensure a high quality of life for future generations. Natural Resources Management: Concepts, Methodologies, Tools, and Applications emphasizes the importance of land, soil, water, foliage, and wildlife conservation efforts and management. Focusing on sustainability solutions and methods for preserving the natural environment, this critical multi-volume research work is a comprehensive resource for environmental conservationists, policymakers, researchers, and graduate-level students interested in identifying key research in the field of natural resource preservation and management.

New astronomical facilities, such as the under-construction Large Synoptic Survey Telescope and planned 30-meter-class telescopes, and new instrumentation on existing optical and infrared (OIR) telescopes, hold the promise of groundbreaking research and discovery. How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants? Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council (NRC) decadal surveys, New Worlds, New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013-2022, as well as other NRC reports. This report describes a vision for a U.S. OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community, an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities, and near-term critical coordination, planning, and instrumentation needed to usher in the era of LSST and giant telescopes.

There is ample evidence about the negative effects business activity of all types can have on the provision of human rights. Equally, there can be little doubt economic development, usually driven through business activity and trade, is necessary for any state to provide the institutions and infrastructure necessary to secure and provide human rights for their citizens. The United Nations and businesses recognise this tension and are collaborating to effect change in business behaviours through voluntary initiatives such as the Global Compact and John Ruggie ' s Guiding Principles. Yet voluntary approaches are evidently failing to prevent human rights violations and there are few alternatives in law for affected communities to seek justice. This book seeks to robustly challenge the current status quo of business approaches to human rights in order to develop meaningful alternatives in an attempt to breach the gap between the realities of business and human rights and its discourse. This book was previously published as a special issue of the International Journal of Human Rights.

OECD's 2014 Economic Survey of the United States examines recent economic developments, policies and prospects. Special chapters cover improving well-being and making the best of new energy resources.

Why does knowing more mean believing—and doing—less? A prescription for change The more facts that pile up about global warming, the greater the resistance to them grows, making it harder to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead. It is a catch-22 that starts, says psychologist and economist Per Espen Stoknes, from an inadequate understanding of the way most humans think, act, and live in the world around them. With dozens of examples—from the private sector to government agencies—Stoknes shows how to retell the story of climate change and, at the same time, create positive, meaningful actions that can be supported even by deniers. In What We Think About When We Try Not To Think About Global Warming, Stoknes not only masterfully identifies the five main psychological barriers to climate action, but addresses them with five strategies for how to talk about global warming in a way that creates action and solutions, not further inaction and despair. These strategies work with, rather than against, human nature. They are social, positive, and simple—making climate-friendly behaviors easy and convenient. They are also story-based, to help add meaning and create community, and include the use of signals, or indicators, to gauge feedback and be constantly responsive. Whether you are working on the front lines of the climate issue, immersed in the science, trying to make policy or educate the public, or just an average person trying to make sense of the cognitive dissonance or grapple with frustration over this looming issue, What We Think About When We Try Not To Think About Global Warming moves beyond the psychological barriers that block progress and opens new doorways to social and personal transformation.

The Arctic has again become one of the leading issues on the international foreign policy agenda, in a manner unseen since the Cold War. Drawing on the perspectives of geo-politics and international law, this Handbook offers fresh insights and perspectives on the most pressing issues, grouped under the headings of political ascendancy, climate and environmental issues, resources and energy, and the response and policies of affected countries.

Surveys key advances in commercial satellite communications and what might be the implications and/or opportunities for end-users and service providers in utilizing the latest fast-evolving innovations in this field This book explores the evolving technical options and opportunities of satellite networks. Designed to be a self-contained reference, the book includes background technical material in an introductory chapter that will serve as a primer to satellite communications. The text discusses advances in modulation techniques, such as DBV-S2 extensions (DVS-S2X); spotbeam-based geosynchronous and medium earth orbit High Throughput Satellite (HTS) technologies and Internet applications; enhanced mobility services with aeronautical and maritime applications; Machine to Machine (M2M) satellite applications; emerging ultra HD technologies; and electric propulsion. The author surveys the latest innovations and service strategies and the resulting implications, which involves: Discussing advances in modulation techniques and HTS spotbeam technologies Surveying emerging high speed aeronautical mobility services and maritime and other terrestrial mobility services Assessing M2M (machine-to-machine) applications, emerging Ultra HD video technologies and new space technology Satellite communication is an integral part of the larger fields of commercial, television/media, government, and military communications, because of its multicast/broadcast capabilities, mobility, reliability, and global reach. High Throughput Satellites) are expected to revolutionize the field during this decade, providing very high speed, yet cost-effective, Internet access and connectivity anywhere in the world, in rural areas, in the air, and at sea. M2M connectivity, enabled by satellite communications, connects trucks on transcontinental trips, aircraft in real-time-telemetry aggregation, and mercantile ships. A comprehensive analysis of the new advances in satellite communications, Innovations in Satellite Communications Technology is a reference for telecommunications and satellite providers and end-users, technology investors, logistic professionals, and more.

The study assesses to what extent the production and use of advanced sustainable jet fuel may contribute to GHG reduction and mitigation, and identifies the commercial potential for initiating and scaling up advanced sustainable jet fuel production at a Nordic level. The report explores as well on how to most efficiently use the available Nordic know-how, feedstock and production facilities. The report draws on the latest available reports and statistics, as well as interviews with stakeholders and experts across the Nordic countries, concludes on identifying the most matured technologies, the Nordic opportunities and challenges, and ideas to mitigate the barriers within the Nordic private and public sectors.

Today ' s era of intense globalization has unleashed dynamic movements of people, pathogens, and pests that overwhelm the static territorial jurisdictions on which the governance provided by sovereign states and their formal intergovernmental institutions is based. This world of movement calls for new ideas and institutions to govern people ' s health, above all in Africa, where the movements and health challenges are the most acute. This book insightfully explores these challenges in ways that put the perspectives of Africans themselves at centre stage. It begins with the long central and still compelling African health challenge of combating the pandemic of HIV/AIDS. It then examines the global governance responses by the major multilateral organizations of the World Bank and the World Trade Organization and the newer informal flexible democratically oriented ones of the Group of Eight. It also addresses the compounding health challenge created by climate change to assess both its intensifying impact on Africa and how all international institutions have largely failed to link climate and health in their governance response. It concludes with several recommendations about the innovative ideas and institutions that offer a way to closing the great global governance gaps and thus improving Africans ' health and that of citizens beyond.

The Routledge International Handbook of Memory Studies offers students and researchers original contributions that comprise the debates, intersections and future courses of the field. It is divided in six themed sections: 1) Theories and Perspectives, 2) Cultural artefacts, Symbols and Social practices, 3) Public, Transnational, and Transitional Memories 4) Technologies of Memory, 5) Terror, Violence and Disasters, 6) and Body and Ecosystems. A strong emphasis is placed on the interdisciplinary breadth of Memory Studies with contributions from leading international scholars in sociology, anthropology, philosophy, biology, film studies, media studies, archive studies, literature and history. The Handbook addresses the core concerns and foundations of the field while indicating new directions in Memory Studies.

