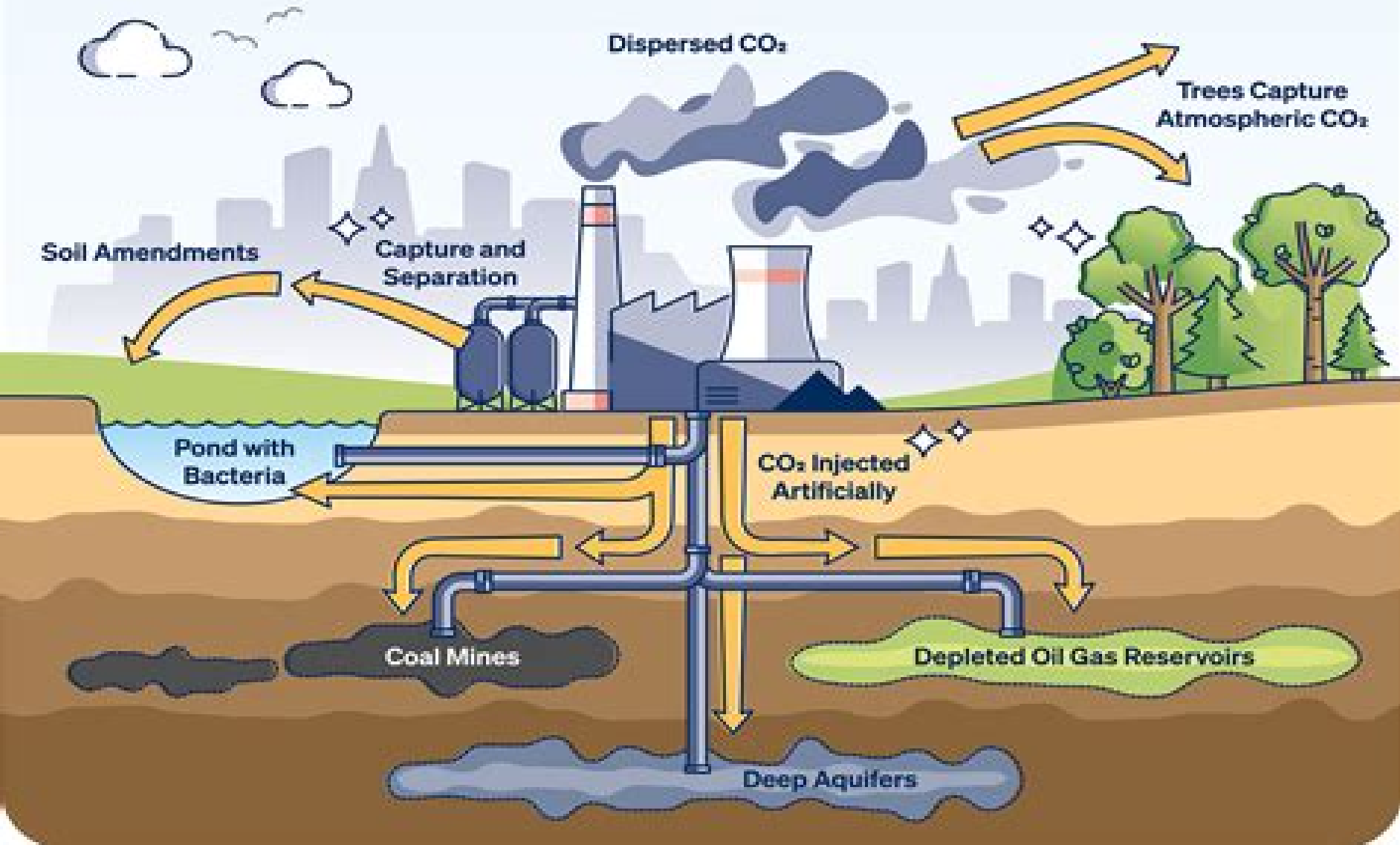


Carbon Sequestration



Carbon Sequestration In Urban Ecosystems

Robert A. Francis, Michael A. Chadwick



Carbon Sequestration In Urban Ecosystems:

Carbon Sequestration in Urban Ecosystems Rattan Lal, Bruce Augustin, 2011-12-10 Urbanization drastically alters the ecosystems structure and functions disrupts cycling of C and other elements along with water It alters the energy balance and influences climate at local regional and global scales In 2008 urban population exceeded the rural population In 2050 70% of the world population will live in urban centers The number of megacities 10 million inhabitants increased from three in 1975 to 19 in 2007 and is projected to be 27 in 2025 Rapid urbanization is altering the ecosystem C budget Yet urban ecosystems have a large C sink capacity in soils and biota Judicious planning and effective management can enhance C pool in urban ecosystems and off set some of the anthropogenic emissions Principal components with regards to C sequestration include home lawns and turfs urban forests green roofs park and recreational sports facilities and urban agriculture

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Urban Ecosystems Frederick R. Adler, Colby J. Tanner, 2013-04-25 As humans have come to dominate the earth the ideal of studying and teaching ecology in pristine ecosystems has become impossible to achieve Our planet is now a mosaic of ecosystems ranging from the relatively undisturbed to the completely built with the majority of people living in urban environments This accessible introduction to the principles of urban ecology provides students with the tools they need to understand these increasingly important urban ecosystems It builds upon the themes of habitat modification and resource use to demonstrate how multiple ecological processes interact in cities and how human activity initiates chains of unpredictable unintended ecological consequences Broad principles are supported throughout by detailed examples from around the world and a comprehensive list of readings from the primary literature Questions exercises and laboratories at the end of each chapter encourage discussion hands on study active learning and engagement with the world outside the classroom window

Soils in Urban Ecosystem Amitava Rakshit, Subhadip Ghosh, Viacheslav Vasenev, H. Pathak, Vishnu D. Rajput, 2022-04-13 This book is a compilation of latest work in the field of urban soil management It explores the global status of urban soils and puts forwards methods for sustainable utilization of urban soils and green spaces Urban soil study is a new frontier of soil science Urban soils research is challenging due to complexity of classification spatial temporal

variability exposure to pollution and the predominant effect of the anthropogenic factor on soil formation Management of urban soils and green spaces is an important aspect for developing sustainable spaces This is a comprehensive collection of information for the students researchers landscape architects understanding and maximizing the benefits of soils in urban ecosystems

Urban Ecosystems Robert A. Francis, Michael A. Chadwick, 2013 With over half of the global human population living in urban regions urban ecosystems may now represent the contemporary and future human environment This book aims to review what is currently known about urban ecosystems in a short and approachable text that will serve as a key resource for teaching and learning related to the urban environment

Urban Expansion, Land Cover and Soil Ecosystem Services Ciro Gardi, 2017-04-07 More than half of the world population now lives in cities and urban expansion continues as rural people move to cities This results in the loss of land for other purposes particularly soil for agriculture and drainage This book presents a review of current knowledge of the extension and projected expansion of urban areas at a global scale Focusing on the impact of the process of land take on soil resources and the ecosystem services that they provide it describes approaches and methodologies for detecting and measuring urban areas based mainly on remote sensing together with a review of models and projected data on urban expansion The most innovative aspect includes an analysis of the drivers and especially the impacts of soil sealing and land take on ecosystem services including agriculture and food security biodiversity hydrology climate and landscape Case studies of cities from Europe China and Latin America are included The aim is not only to present and analyse this important environmental challenge but also to propose and discuss solutions for the limitation mitigation and compensation of this process

Dynamics of Land Use and Carbon Emissions in the Context of Carbon Neutrality and Carbon Peaking Chenxi Li, Ayyoob Sharifi, Bao-Jie He, Zhiheng Yang, 2025-01-16 The objective of achieving carbon neutrality serves as a crucial guiding principle in addressing the global issue of climate change and fostering sustainable economic growth and ecological harmony Carbon emissions from land use account for 10% of the total global carbon emissions It is an important carbon source and sink of the earth system Therefore optimizing the land spatial pattern is one of the important means to promote carbon neutralization In 1997 Kyoto Protocol emphasized that countries could improve carbon sink capacity reduce carbon emissions and practice climate governance through afforestation forest management and farmland management In this context countries worldwide should actively optimize the land spatial pattern enhance the carbon sink capacity of terrestrial ecosystems and build a low carbon land use structure and land spatial pattern system There are mainly four types of territorial space conflicts The first is the conflict of development space which is a vicious expansion of urban space caused by excessive dependence on GDP The second is the conflict of land use space which is mainly reflected in the overlapping contradiction between cultivated land space and ecologically fragile space The third is the conflict caused by the disharmony of element space The fourth is the conflict of planning space characterized by the contradiction between ecological and construction spaces According to the IPCC report on the

relationship between climate change and land the management mode of natural resources the transformation of space use and the improper allocation of factors will cause carbon sink profits and losses On the one hand land use carbon emissions may be the effect of land use control on the other hand it may also be caused by man made carbon emissions

Urban Ecology Pramit Verma, Pardeep Singh, Rishikesh Singh, A. S. Raghubanshi, 2020-07-14 Urban Ecology covers the latest theoretical and applied concepts in urban ecological research This book covers the key environmental issues of urban ecosystems as well as the human centric issues particularly those of governance economics sociology and human health The goal of Urban Ecology is to challenge readers thinking around urban ecology from a resource based approach to a holistic and applied field for sustainable development There are seven major themes of the book emerging urban concepts and urbanization land use land cover change urban social ecological systems urban environment urban material balance smart healthy and sustainable cities and sustainable urban design Within each section key concepts such as monitoring the urbanization phenomena land use cover urban soil fluxes urban metabolism pollution and human health and sustainable cities are covered Urban Ecology serves as a comprehensive and advanced book for students researchers practitioners and policymakers in urban ecology and urban environmental research planning and practice Includes global case studies from over 14 countries providing a first hand account of recent applications Covers the phenomena of sustainable transport nutrient recovery and human health among many others Examines environmental issues as well as social ecological systems and governance

The Palgrave Encyclopedia of Urban and Regional Futures Robert C. Brears, 2023-01-13 While urban settlements are the drivers of the global economy and centres of learning culture and innovation and nations rely on competitive dynamic regions for their economic social and environmental objectives urban centres and regions face a myriad of challenges that impact the ways in which people live and work create wealth and interact and connect with places Rapid urbanisation is resulting in urban sprawl rising emissions urban poverty and high unemployment rates housing affordability issues lack of urban investment low urban financial and governance capacities rising inequality and urban crimes environmental degradation increasing vulnerability to natural disasters and so forth At the regional level low employment low wage growth scarce financial resources climate change waste and pollution and rising urban peri urban competition etc are impacting the ability of regions to meet socio economic development goals while protecting biodiversity The response to these challenges has typically been the application of inadequate or piecemeal solutions often as a result of fragmented decision making and competing priorities with numerous economic environmental and social consequences In response there is a growing movement towards viewing cities and regions as complex and sociotechnical in nature with people and communities interacting with one another and with objects such as roads buildings transport links etc within a range of urban and regional settings or contexts This comprehensive MRW will provide readers with expert interdisciplinary knowledge on how urban centres and regions in locations of varying climates lifestyles income levels and stages development

are creating synergies and reducing trade offs in the development of resilient resource efficient environmentally friendly liveable socially equitable integrated and technology enabled centres and regions

Green Technologies and Infrastructure to Enhance Urban Ecosystem Services Viacheslav Vasenev, Elvira Dovletyarova, Zhongqi Cheng, Riccardo Valentini, Carlo Calfapietra, 2019-04-17

These proceedings of the Smart and Sustainable Cities Conference SSC in Moscow from May 23 to 26 2018 addresses important questions regarding the global trend of urbanization What are the environmental consequences of megacities expansion What smart solutions can make life in cities safe comfortable and environmentally friendly It is projected that 70% of the global population will live in cities by 2050 and as such the book describes how this rapid urbanization will alter the face of the world Focusing on solutions for the environmental problems of modern megapolises it discusses advanced approaches and smart technologies to monitor model and assess the environmental consequences and risks The contributors present examples of successful sustainable urban development including management and design of green infrastructure waste management run off purification and remediation of urban soils The SSC conference and its proceedings offer a valuable contribution to sustainable urban development and are of interest to the scientific and research community municipal services environmental protection agencies landscape architects civil engineers policy makers and other stakeholders in urban management and greenery

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