



Circular Economy Advanced

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Circular Economy Advanced:

Future Cities Making Niki Frantzeskaki, Magnus Moglia, Peter Newton, Deo Prasad, Melissa Pineda Pinto, 2024-12-26

This open access book describes the complex dynamics that coevolve in cities and from cities to inform agendas for urban research and urban policy with a view to future city missions. It provides a suite of research informed chapters on urban pathways that are early signals and visions for how future cities can be shaped and transformed as well as chapters from policy industry and intermediary organization actors that relate and respond to these pathways from a mainstreaming and implementation perspective. This edited collection intends to trigger and capture an ambitious transformative agenda amongst researchers and practitioners who have as their mission to shape urban futures. While there is proliferating literature on cities urbanism and urban governance this book offers a unique selling point implying a research positioning point to the field of sustainability transitions by intersecting research on urban sustainability transitions and missions oriented research. The focus on the nexus of game changers pathways and innovations sets the book firmly in the leading edge of urban transitions research. The book engages with a breadth of disciplines including sustainability science urban planning urban design mobility energy climate change science urban ecology urban sociology architecture data science sustainability transitions studies policy analysis and policy studies as well as environmental governance. As an output it aims to engage with and inspire future research and teaching education in the fields of architecture and urban planning urban design environmental governance sustainability science innovation studies and urban sociology.

Circular Economy and Waste Valorisation Jingzheng Ren, Long Zhang, 2022-08-23. The authors and editors of this volume state that with the intensive growth of global industrialization and urbanization the consumption of various resources and materials such as energy minerals and even water is increasing at an amazing speed which poses great pressure on material resources. In addition the massive utilization of materials has led to low efficiency resulting in great wastes of resources as well as serious environmental pollutions and degradation which has severely hindered the sustainable development of economy and society. In order to transit to sustainable development it is necessary to improve resource efficiency and circular economy and waste valorization are the best alternative ways for achieving this goal. This book aims to provide an in depth description of circular economy and waste valorization make assessments for circular economy and waste valorization in different regions and countries and determine the technological pathways and roadmap for achieving circular economy and waste valorization. More specifically:

- 1 Conceptions and Theories Concepts and definitions of circular economy and waste valorization and their nexus and contributions to sustainable development
- 2 Policy and Practice Measurement and assessment of performance or sustainability for implementing circular economy and waste valorization
- 3 Pathways and Prospects Identification and prioritization of the barriers strategies technologies and pathways for achieving circular economy and waste valorization

The book systematically and comprehensively introduces the definitions concepts framework and nexus of circular economy and

waste valorization analyzes and measures their performance and sustainability and provides the methods for investigating and prioritizing the barriers and strategies and determining the pathways and roadmap for their development Shaping sustainable agrifood futures: pre-emerging and emerging technologies and innovations for impact Alexandrova-Stefanova, N.; Nosarzewski, K.; Mroczek, Z.K.; Audouin, S.; Djamien, P.; Kolos, N.; Wan, J.,2024-10-16

FAO s Office of Innovation is working with CIRAD International Cooperation Centre of Agricultural Research for Development and other partners on an FAO initiative on foresight on pre emerging and emerging agrifood technologies and innovations aligned with UN 2 0 and The Future of Food and Agriculture 2022 engaging all key actors of agrifood innovation systems in the foresight on pre emerging and emerging technologies and innovations PETIAS to better prepare for alternative futures feeding it into anticipatory action and convening the global community for constructive multilateral dialogue and knowledge exchange The aim is to support policymakers investors and innovation actors in their approaches and decision making The study assesses a selection of technologies and innovations which potentially could be of paramount importance in addressing agrifood challenges until 2050 as well as the most important trends and drivers that will influence the emergence of agrifood PETIAS and their triggers of change including some regional aspects and stakeholders perspectives The goal is also to build plausible future scenarios for the evolvement of the PETIAS and innovation process governance in the future with the time horizon of 2050 to inform future oriented policymaking The report is built with inputs from a multistakeholder Delphi survey online and in presence workshops with experts and stakeholders the FAO FSN Forum as well as regional foresight exercises Latin America and Central Asia and Caucasus

Advanced Biofuels and Circular Economy Rahil Akhtar Usmani,Mudasir A. Dar,Akram Ahmad Khan,2025-07-23 This book offers a holistic analysis of the role of advanced biofuels within the context of the circular economy It provides a multidisciplinary perspective on cutting edge developments in biofuel technology including their sustainability impact techno economic and socio economic considerations This edited collection merges insights from environmental science economics and sustainability studies to provide a comprehensive understanding of the current landscape of advanced biofuels Each chapter explores the complex interplay of the circular economy with biotechnological advancement analysing diverse aspects including biofuel production impact on local communities their role in sustainable development and job creation role in long term economic growth and tackling climate challenges The book also offers practical guidance on assessing socio economic impacts and navigating the regulatory landscape This is a valuable resource for researchers in the bioeconomy circular economy agricultural and environmental economics as well as policymakers looking to make informed decisions and contribute to sustainable practices

Advanced Ceramic Materials - Emerging Technologies ,2025-03-05 The demand for advanced materials precisely tailored to specific industrial applications is becoming increasingly complex and challenging Meeting this need requires the adoption of emerging manufacturing and environmentally friendly technologies to produce high performance materials which will be essential in the coming years The

future of the emerging ceramics industry lies in developing flawless materials with exceptional properties that are carefully engineered to meet changing market demands. A pressing challenge in this field is adopting sustainable practices, reduce, reuse, and recycle while ensuring that the ceramics industry becomes increasingly eco-conscious. Sustainability is no longer an option but an imperative, and scientists must revolutionize the industry through innovative techniques, processing methods, and bold solutions for ceramic materials. This book provides an up-to-date overview of the current state of advanced ceramic materials, emphasizing emerging technologies. It highlights processes and techniques based on proven advances, offering a critical overview of this fundamental area of research and development.

Technology Innovation for the Circular Economy
Nabil Nasr, 2024-02-21

TECHNOLOGY INNOVATION FOR THE CIRCULAR ECONOMY: The book comprises 56 peer-reviewed chapters comprehensively covering in depth areas of circular economy design, planning, business models, and enabling technologies. Some of the greatest opportunities for innovation in the circular economy are in remanufacturing, refurbishment, reuse, and recycling. Critical to its growth, however, are developments in product design approaches and the manufacturing business model that are often met with challenges in the current largely linear economies of today's global manufacturing chains. The conference hosted by the REMADE Institute in Rochester, NY, brought together U.S. and international researchers, industry engineers, technologists, and policymakers to discuss the myriad intertwining issues relating to the circular economy. This book consists of 56 chapters in 10 distinct parts covering broad areas of research and applications in the circular economy area. The first four parts explore the system-level work related to circular economy approaches, models, and advancements, including the use of artificial intelligence (AI) and machine learning to guide implementation, as well as design for circularity approaches. Mechanical and chemical recycling technologies follow, highlighting some of the most advanced research in those areas. Next, innovation in remanufacturing is addressed with descriptions of some of the most advanced work in this field. This is followed by tire remanufacturing and recycling, highlighting innovative technologies in addressing the volume of end-of-use tires. Pathways to net-zero emissions in manufacturing of materials concludes the book with a focus on industrial decarbonization.

Audience: This book has a wide audience in academic institutes, business professionals, and engineers in a variety of manufacturing industries. It will also appeal to economists and policymakers working on the circular economy, clean tech investors, industrial decision makers, and environmental professionals.

Advanced Strategies for Biodegradation of Plastic Polymers
Ravindra Soni, Prasenjit Debbarma, Deep Chandra Suyal, Reeta Goel, 2024-04-10

Synthetic plastic offers a wide range of utilities because of its physico-chemical properties; thus, the demand for its commercial availability and generation of waste is inevitable. Although the scientists have proved over the years that plastics can be efficiently biodegraded by different potential microorganisms, this sustainable green technology is still in the cocoon phase and overlooked by the industry and government as well. Therefore, this book will showcase the cutting-edge microbial tools to mitigate the plastic waste sustainably in consideration of latest technologies and recent strategic advancements besides

discussing the global plastic production and their impacts on environment It will also provide the present status and future perspectives of the environmental clean up technologies Moreover it is an effort to ascertain the potential areas for large scale biodegradation or pilot scale or start up ventures in the field of plastic remediation strategy *Low Carbon Transition* Dalia Streimikiene, Indre Siksnelyte-Butkiene, Tomas Balezentis, 2024-06-04 Low carbon transition is a shift from an economy that depends heavily on fossil fuels to a sustainable low carbon energy economy This book analyzes the role of renewables in driving the low carbon transition in agriculture explores the circular bio based economy and examines policies and strategies designed to facilitate low carbon transition in agriculture greenhouse gas mitigation and adaptation trends in the European Union agriculture sector It provides new knowledge and understanding about the impact of low carbon energy transition emphasizes the key role of renewable energy in a wide range of agricultural activities and offers alternative sustainable solutions to current practices Features Discusses a novel approach on low carbon transition that is not considered by the majority of studies Emphasizes the urgent need to minimize the carbon and environmental footprint of the EU agriculture and food system through low carbon energy transition Provides theoretical background of sustainable agriculture and explains the decarbonization path of agriculture Investigates the role of renewables new technologies business models and practices in agriculture while assessing their socioeconomic and environmental effects Presents a case study on the applications of low carbon transition policies in selected EU member states and analyses in details various implications This book is suitable for senior undergraduate and graduate students professionals in agriculture researchers and policy makers interested in sustainable agriculture and renewable energy usage and their economics Renewable Energy Generation and Value Addition from Environmental Microfiber Pollution Through Advanced Greener Solution Alok Prasad Das, Ipsita Dipamitra Behera, Narayan Prasad Das, 2024-02-24 The majority of clothes we use regularly are made up of plastic based materials like polyester rayon nylon and acrylic When these garments are washed in laundries they give out tiny plastic fragments termed microfibers which end up in the environment and more precisely in the oceans Plastic and synthetic polymer wastes which are often irresponsibly discarded into natural habitats undergo bio fragmentation to give out huge amounts of microplastics and microfibers Synthetic microfiber pollution has been reported in diverse ecosystems ranging from land and aquatic ecosystem to shorelines and seafloors Due to the miniature size of the microfibers it is difficult to detect investigate and prevent this type of pollution that is occurring on a larger scale It is estimated that millions of tons of microfibers are released into the ocean from various sources They are more toxic because they are more persistent and take a long time to degrade and it gets accumulated in the environment along with other pollutants This increases the chances of living organisms in the biosphere ingesting the synthetic microfibers causing harm to the ecosystem and entering into the food chain adversely affecting human beings It had become a great field of research because of its abundance and the challenges in the identification of synthetic and semisynthetic microfibers from the environmental samples and the time it

takes to be degraded This book focuses on renewable energy generation and value addition from environmental microfiber pollution through advanced greener solution thus building an economic supportable society as an elementary need of developing countries

Application of Big Data, Deep Learning, Machine Learning, and Other Advanced Analytical Techniques in Environmental Economics and Policy Tsun Se Cheong,Xunpeng (Roc) Shi,Yanfei Li,Yongping Sun,2022-07-25

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