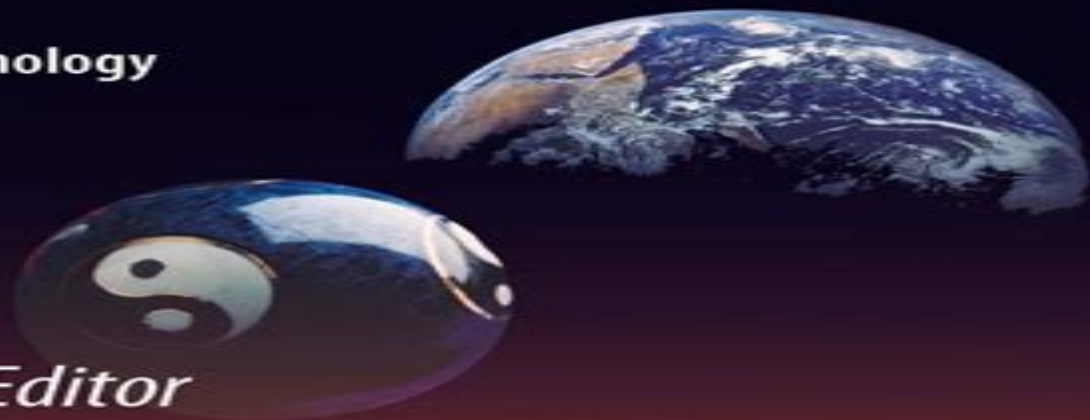


Green Energy and Technology



Luis Puigjaner *Editor*

# Syngas from Waste

## Emerging Technologies

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# Syngas From Waste Emerging Technologies Green Energy And Technology

**Luis Puigjaner, Antonio España, Mar  
Pérez-Fortes, Ana Somoza-Tornos**



## **Syngas From Waste Emerging Technologies Green Energy And Technology:**

Syngas from Waste Luis Puigjaner, 2011-07-15 Syngas from Waste presents the most recent concepts methods and techniques for the preliminary design of a promising emerging technology production of clean syngas from waste materials An in depth account is given of the steps necessary to achieve the optimum design and up to date tools are presented to support the designer s decision making tasks modelling simulation and optimization Numerous illustrations and tables are included to facilitate the reader s understanding as well as suggestions for further reading The text is complemented with practical examples and industrial applications ranging from clean power generation to complex combined heat and power systems and high purity hydrogen for use in fuel cells Syngas from Waste contains high quality contributions from leading experts in the field It is intended for academics at MSc or PhD level researchers and industry practitioners in syngas production and applications who are involved in the design retrofit design and evaluation activities of alternative scenarios It contains valuable teaching material for lecturers and provides industry professionals with the know how to evaluate and improve existing installations or even to design a new one *Sustainable Solid Waste Management* Ni-Bin Chang, Ana Pires, 2015-02-19 This book presents the application of system analysis techniques with case studies to help readers learn how the techniques can be applied how the problems are solved and which sustainable management strategies can be reached **Emerging Technologies** Sinan Küfeoğlu, 2022-07-11 This monograph investigates a multitude of emerging technologies including 3D printing 5G blockchain and many more to assess their potential for use to further humanity s shared goal of sustainable development Through case studies detailing how these technologies are already being used at companies worldwide author Sinan K feo lu explores how emerging technologies can be used to enhance progress toward each of the seventeen United Nations Sustainable Development Goals and to guarantee economic growth even in the face of challenges such as climate change To assemble this book the author explored the business models of 650 companies in order to demonstrate how innovations can be converted into value to support sustainable development To ensure practical application only technologies currently on the market and in use actual companies were investigated This volume will be of great use to academics policymakers innovators at the forefront of green business and anyone else who is interested in novel and innovative business models and how they could help to achieve the Sustainable Development Goals This is an open access book **Advanced and Emerging Technologies for Resource Recovery from Wastes** Laleh Nazari, Chunbao (Charles) Xu, Madhumita B. Ray, 2021-04-01 This book introduces advanced or emerging technologies for conversion of wastes into a variety of high value chemicals and materials Energy and resources can be recovered from various residential industrial and commercial wastes such as municipal wastewater and sludge e waste waste plastics and resins crop residues forestry residues and lignin Advanced waste to resource and energy technologies like pyrolysis hydrothermal liquefaction fractionation de polymerization gasification and carbonization are also introduced The book serves as an essential guide to

dealing with various types of wastes and the methods of disposal recovery recycling and re use As such it is a valuable resource for a wide readership including graduate students academic researchers industrial researchers and practitioners in chemical engineering waste management waste to energy and resources conversion and biorefinery Advances in Synthesis Gas: Methods, Technologies and Applications Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2022-10-18 Advances in Synthesis Gas Methods Technologies and Applications Syngas Production and Preparation is a collection of various chapters concerning many aspects of syngas production technologies including common methods like gasification steam dry autothermal reforming membrane technology etc along with novel methods like plasma technology micro reactors electrolysis processes as well as photocatalytic systems In addition different sources for producing syngas including oil crude oil heavy oil microalgae black liquor tar and bitumen as well as municipal agricultural food plastic wood and cardboard wastes are described in detail Introduces syngas characteristics and its properties Describes various methods and technologies for producing syngas Discusses syngas production from different roots and feedstocks

**Catalysis, Green Chemistry and Sustainable Energy** Angelo Basile, Gabriele Centi, Marcello De Falco, Gaetano Iaquaniello, 2019-11-22 Catalysis Green Chemistry and Sustainable Energy New Technologies for Novel Business Opportunities offers new possibilities for businesses who want to address the current global transition period to adopt low carbon and sustainable energy production This comprehensive source provides an integrated view of new possibilities within catalysis and green chemistry in an economic context showing how these potential new technologies may become useful to business Fundamentals and specific examples are included to guide the transformation of idea to innovation and business Offering an overview of the new possibilities for creating business in catalysis energy and green chemistry this book is a beneficial tool for students researchers and academics in chemical and biochemical engineering Discusses new developments in catalysis energy and green chemistry from the perspective of converting ideas to innovation and business Presents case histories preparation of business plans patent protection and IP rights creation of start ups research funds and successful written proposals Offers an interdisciplinary approach combining science and business **Biomass Valorization**

**Technologies** Kaustubh Khaire, Bikash Kumar, 2025-10-24 This book presents a multifaceted examination of biomass valorization biofuel and bioenergy across diverse sectors and seeks to address the fundamental aim of advancing sustainable energy solutions while mitigating environmental challenges It delves into the promising realm of algal biofuel production exploring novel cultivation techniques and the potential for algae to become a game changing clean energy source It addresses the challenges and insights within the bioenergy and biofuels sector laying the groundwork for understanding the complex dynamics of this field Provides multifaceted examination of the rapidly evolving landscape of biomass valorization biofuel and bioenergy across diverse sectors Explores lignocellulosic and algal biorefineries associated technologies and processes Elaborates critical insight into challenges of the technologies and complex dynamics of this biorefinery field

Elucidates a holistic perspective on technological innovations and economic viability for sustainable energy generation  
Illustrates policy frameworks social viability and ethical concerns associated with biomass based biorefinery This book is aimed at graduate students and researchers in environmental and bioengineering *Emerging Sustainable Technologies for Biofuel Production* Maulin Shah,Deepanwita Deka,2024-03-28 This book is presented on biofuel production which includes different technologies developed and adopted to synthesize green renewable fuel alternatives for sustainable development It also reflects different sources of biofuel application of microbial community and microbial engineering to design fuel production and the biosynthetic pathways of biofuel production by microbes Although the expenses for the physical and chemical technologies for energy production and fossil fuel utilization to protect our environment are very high these technologies are not eco friendly and safe Hence the need of certain modern eco friendly and cost effective techniques to protect our environment is deeply apprehended by different workers of this field These techniques involve some feasible technologies utilizing different biological agents like microbes to produce renewable energy This book provides an outline of the science behind the multidisciplinary aspects of biofuel production It summarizes a solid foundation in the fundamentals and progresses to practical applications in this field It structures stepwise route for a number of effective techniques to screen select identify and utilize microbes for biofuel production and utilization It also focuses on the theoretical groundworks of biofuel production recent technologies related to microbial engineering like myco engineering technologies microbial metabolism or modelling approaches to microbial physiology utilized for the same purpose The techniques covered in this book ensure that scientists have the knowledge to practice effective biofuel production techniques themselves in a contaminated ecosystem in a sustainable way Recent progress in the field of biofuels using microbial genetic engineering has larger perspectives in commercial scale production However its large scale production is still challenging hence to resolve this problem it is essential to convert biomass into biofuels by developing novel technology to increase biofuel production to fulfil the current and future energy demand *Green Energy* U. Aswathanarayana,Tulsidas Harikrishnan,Thayyib S.

Kadher-Mohien,2010-08-11 Renewable fuels such as wind solar biomass tides and geothermal are inexhaustible indigenous and often free However capturing them and transforming them into electricity hydrogen or clean transportation fuels often is not Green Energy Technology Economics and Policy addresses how to approach and apply technology economics and

**Biomass, Biofuels, Biochemicals** Ashok Pandey,Christian Larroche,Edgard Gnansounou,Samir Kumar

Khanal,Claude-Gilles Dussap,Steven Ricke,2019-06-06 Biomass Biofuels Biochemicals Biofuels Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels Second Edition provides general information basic data and knowledge on one of the most promising renewable energy sources liquid and gaseous biofuels and their production and application The book delineates green technologies for abating environmental crisis and enabling the transformation into a sustainable future It provides date based scientific information on the most advanced and innovative technology on biofuels

as well as the process scale up and commercialization of various liquid and gaseous biofuels detailing the functional mechanisms involved various operational configurations influencing factors and integration strategies All chapters have been updated with new chapters covering topics of current interest including sustainability and biohydrogen Presents a holistic view of biofuels in research operation scale up and application Widens the scope of the existing technologies providing state of the art information and knowledge Provides strategic integrations of various bioprocesses that are essential in establishing a circular biorefinery Contains interdisciplinary knowledge on the environment molecular biology engineering biotechnology microbiology and economic aspects Integrates various subjects including biotechnology bioengineering molecular biology environmental science sustainability science and chemical engineering

*Biomimetic and Bioinspired Membranes for New Frontiers in Sustainable Water Treatment Technology* Amira Abdelrasoul, Huu Doan, Ali Lohi, 2017-12-06 Biomimetic and bioinspired membranes are the most promising type of membrane for multiple usage scenarios including commercial separation applications as well as water and wastewater treatment technologies In recent years aquaporin biomimetic membranes ABMs for water purification have raised considerable interest These membranes display uniquely favorable properties and outstanding performances such as diverse interactions varied selective transport mechanisms superior stability high resistance to membrane fouling and distinct adaptability Biomimetic membranes would make a significant contribution to alleviate water stress environmental threats and energy consumption

*Catalysis for Green Energy and Technology* Samira Bagheri, 2017-06-28 This book describes the importance of catalysis for the sustainable production of biofuels and biochemicals focusing primarily on the state of the art catalysts and catalytic processes expected to play a decisive role in the green production of fuels and chemicals from biomass The book also includes general sections exploring the entire chain of biomass production conversion environment economy and life cycle assessment

*Climate Change, Human Impact and Green Energy Transformation* Jan Kiciński, Patryk Chaja, 2021-07-23 This book indicates the most optimal solutions for the growing civilization problem related to climate change that takes place more and more rapidly on our planet It is divided into two parts In the first part the authors based on the available analyses and reports on climate change taking place on Earth present their own point of view in relation to the above issue while trying to find answers to the following questions Why is it so difficult to admit that humans are responsible for the ongoing climate change Will climate change destroy life on Earth Can science and modern technologies stop this process In the second part of the book the authors propose a solution for the advancing climate change regarding the reduction of CO<sub>2</sub> emissions coming mainly from the energy sector On the basis of scientific achievements and implementations of research institutions in Poland especially the Institute of Fluid Flow Machinery of the Polish Academy of Sciences in Gdansk the book proposes directions of development of the energy transformation in Poland and other countries for which fossil fuels currently make a large contribution to the energy production process and are the main emitter of CO<sub>2</sub> to the atmosphere The book is addressed to citizens ecologists

climatologists as well as politicians and experts responsible for shaping the climate and energy policy of the country level and also the world

Fuel Cells in the Waste-to-Energy Chain Stephen J. McPhail, Viviana Cigolotti, Angelo Moreno, 2012-01-05

As the availability of fossil fuels becomes more limited the negative impact of their consumption becomes an increasingly relevant factor in our choices with regards to primary energy sources. The exponentially increasing demand for energy is reflected in the mass generation of by products and waste flows which characterize current society's development and use of fossil sources. The potential for recoverable material and energy in these ever increasing refuse flows is huge even after the separation of hazardous constituent elements allowing safe and sustainable further exploitation of an otherwise wasted resource. Fuel Cells in the Waste to Energy Chain explores the concept of waste to energy through a 5 step process which reflects the stages during the transformation of refuse flows to a valuable commodity such as clean energy. By providing selected integrated alternatives to the current centralized wasteful fossil fuel based infrastructure Fuel Cells in the Waste to Energy Chain explores how the concept of waste to energy can be constructed and developed into a realistic solution. The entire spectrum of current and future energy problems is illuminated through the explanation of the operational integration and marketing implications of high efficiency technological solutions using the real context of developed regions such as Europe. Up to date reviews are provided on the status of technology and demonstration implementation and marketing perspectives. The detailed technological information and insight gathered from over twenty years of experience in the field makes Fuel Cells in the Waste to Energy Chain a valuable resource for all engineers and researchers in the fields of energy supply systems and waste conversion as well as providing a key reference for discussions by policy makers, marketing experts and industry developers working in energy supply and waste management.

### **Waste Biomass to Alternative Fuels**

Prakash Kumar Sarangi, 2025-07-15 Waste Biomass to Alternative Fuels explores innovative microbial conversion technologies that offer sustainable solutions for energy production from waste biomass addressing the urgent need for environmentally friendly alternatives to fossil fuels. The world's increasing population and dependency on available fossil fuels has created a need for environmental sustainability. This need calls for innovative products that offer alternative sustainable solutions with less environmental impact. Waste biomass is a cheap renewable resource for biofuels and can be produced sustainably utilizing various biotechnological and biochemical tools. Waste Biomass to Alternative Fuels introduces microbial conversion technologies to recover energy and fuel from plant based non edible biomass and other organic wastes. This book serves as a platform to recognize breakthrough research for understanding the physicochemical properties of biomass available conversion technologies and advanced engineering for large scale biomass processing using microbial biomass. New developments and approaches in biomass processing and characterization, conversion technologies, biofuel upgrading and utilization are discussed. Waste Biomass to Alternative Fuels seeks to provide information on recent advances in the field of biotechnology, catalysis, bioprocess engineering, microbial fuel cells for environmentally friendly production of

clean energy and fine chemicals      **Smart Green Cities** Woodrow Clark II, Grant Cooke, 2016-03-10 Smart Green Cities is a comprehensive overview of what global cities are doing to become sustainable Woodrow W Clark II and Grant Cooke have produced a book that is both practical and visionary They have examined the infrastructure needs sustainable development communications energy water waste and transportation to develop guidelines processes and best practices City leaders are key to mitigating climate change who must plan design and implement solutions Smart Green Cities SGC offers a global perspective that includes implementing the Green Industrial Revolution the title of their last book SGC discusses innovative emerging technologies and the new economics paradigm that move beyond the out dated neo classical economics The authors present examples from around the world including Europe the U S China and the Middle East which discuss the best green technologies from renewable energy power generation to smart on site grid development The extraordinary shift from a rural to an urban world is described national plans are analyzed so that future cities will be designed built and implemented now not 50 years from now The struggle for the planet s survival is being waged by the world s cities Clark and Cooke argue that cities are the key to mitigating climate change and reducing toxic greenhouse gas emissions SGC introduces sustainable technologies discusses the economics for implementing the solutions and offers numerous examples to serve as pathways for cities to become smart green and thus carbon neutral      *Perspectives of Chemicals Synthesis as a Green Alternative to Fossil Fuels* Luis Puigjaner, Antonio Espuña, Mar Pérez-Fortes, Ana Somoza-Tornos, 2022-01-05

**Comprehensive Energy Systems** Ibrahim Dincer, 2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language      **Emerging Contaminants** Jeyaseelan Aravind, Murugesan Kamaraj, 2022-03-07 The increased demand due to anthropogenic activity leads to emerging contaminants resulting in a substantial environmental hazard The long term presence and exposure of contaminants lead to severe negative impacts on the environment humans and other life forms Hence emerging contaminants in the environment is a worldwide concern and new technologies to mitigate these contaminants are being developed This book covers the source occurrence toxicity and detection techniques of a wide range of emerging contaminants This collection also discusses the scope and applications of diverse techniques

including Bio Phyto and Nano remediation technologies to mitigate the emerging contaminants along with their sustainability issue and prospects As a result this book appears to provide insight into several modern and environmentally friendly waste management options the possibility to minimize and lessen the effects of contaminants and striving to lower toxicological endpoints to assure environmental safety This book delivers the most recent advancements by prominent specialists in environmental sciences to academics researchers students and practitioners interested in the identification and eradication of emerging pollutants from the environment

### **Innovations in Thermochemical Technologies for Biofuel Processing**

Sonil Nanda,Dai-Viet N. Vo,2022-03-15 Innovations in Thermochemical Technologies for Biofuel Processing broadly covers current technologies in alternate fuels and chemical production a few of which include biomass to liquid biomass to gas and gas to liquid biomass conversion technologies The topics in this book include elaborative discussions on biomass feedstocks biomass to liquid technologies liquefaction pyrolysis and transesterification biomass to gas technologies gasification gas to liquid technologies syngas fermentation and Fischer Tropsch synthesis co processing technologies fuel upgrading technologies hydrotreating and reforming novel catalyst development for biorefining biorefining process optimization unit operations reaction kinetics artificial neural network and much more The book comprehensively discusses the strengths weaknesses opportunities and threats of notable biofuels e g bio oil biocrude oil biodiesel bioethanol biobutanol bio jet fuels biohydrogen biomethane synthesis gas hydrocarbon fuels etc Addresses solutions for clean fuel energy security waste management waste valorization reduced greenhouse gas emissions carbon capture and sequestration circular economy and climate change mitigation Includes applications of thermochemical conversion and reforming technologies for waste biomass to biofuels Covers current technologies in alternate fuels and chemicals production a few of which include conversion technologies i e liquefaction gasification pyrolysis torrefaction transesterification organic transformation carbon carbon and carbon heteroatom coupling reactions oxidation and reforming processes etc hydrotreating technologies i e hydrogenation hydrodesulfurization hydrodenitrogenation hydrodearomatization and hydrodemetalization and catalytic processes

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