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# **Global Form aldehyde Market 2015 2019**

*Despite troubled  
trade negotiations,  
global trade—and  
trade policy—will  
thrive in the twenty-  
first century, but  
with a bow to the*

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*past. Is the multilateral trading order of the twentieth century a historical artifact? Was the creation of the World Trade Organization in 1995 the high point of multilateral cooperation on trade? This new volume, edited by*

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*Bernard M.  
Hoekman and  
Ernesto Zedillo,  
assesses the  
relevance of the  
WTO in the context  
of the rise of China  
and the United  
States' turn toward  
unilateral  
protectionism. The  
contributors adopt  
a historical*

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*perspective to discuss changes in global trade policy trends, adducing lessons from the past to help understand current trade tensions.*

*Topics include responses to U.S. protectionism under the Trump administration, the*

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*policy dimensions  
of trade in services  
and the rise of the  
digital economy,  
how to strengthen  
the WTO to better  
negotiate new rules  
of the game and  
adjudicate  
disputes, managing  
China's integration  
into the global  
trade system, and*

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*the implications of  
global value chains  
for economic  
development  
policies. By  
reflecting on past  
episodes of  
protectionism and  
how they were  
resolved, Trade in  
the 21st Century  
provides both  
context and*

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*guidance on how  
trade challenges  
can be addressed in  
the coming  
decades.*

*The “greening” of  
industry processes,  
i.e. making them  
more sustainable,  
is a popular and  
often lucrative  
trend which has  
emerged over*

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*recent years. The  
3rd volume of  
Green Chemical  
Processing  
considers  
sustainable  
chemistry in the  
context of  
corporate interests.  
The American  
Chemical Society's  
12 Principles of  
Green Chemistry*



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*are woven throughout this text as well as the series to which this book belongs.*

*In 2020, COVID-19 starkly demonstrated the global interconnectedness of business, as it disrupted supply chains and*

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*manufacturing operations, broadly shuttered retail stores, and led to restrictions on movement and travel around the world. Other events in 2019 also showcased the undeniable globalization of business, be it from*

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*the (un)expected ramifications of Brexit to the impacts of data breaches across various industries. Riots in Hong Kong over an extradition bill also sparked huge debate and controversy, and the U.S.-China trade war also*

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*caused concern. All of these events may have largely and immediately impacted one region, yet effects reverberate across larger swathes of the globe—ultimately affecting vast areas, industries, and sectors across*

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*the international landscape. Issues in Global Business explores all of these and more, across a wide range of topics, including the on-demand economy, global manufacturing, Bitcoin, data security, and many more. Coupled with*

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*a comprehensive  
overview of the  
business landscape  
around the world  
by Dr. Mamoun  
Benmamoun, an  
assistant professor  
at the Boeing  
Institute of  
International  
Business at Saint  
Louis University,  
this book provides*

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*students with the  
essential*

*information they  
need to assess  
business practices  
through an  
international lens.  
Qatar's sizable oil  
and natural gas  
reserves have  
underpinned its  
rapid economic  
growth over the*

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*past two decades.  
Home to the  
world's largest non-  
associated gas  
field, the country is  
the world's fourth-  
largest producer of  
dry natural gas and  
the largest  
producer of  
liquefied natural  
gas, with  
hydrocarbons*



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Market, 2015-2019*

*revenues forming  
the bulk of national  
income as a result.  
Although the drop  
in global energy  
prices has  
impacted export  
revenues, rigorous  
economic  
diversification  
drives in recent  
years have paid  
dividends, and in*

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2015 non-hydrocarbons growth reached 7.7%, compared to a 0.1% contraction for hydrocarbons growth during the same period. The country's financial sector has continued to evolve; Islamic banking in

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*particular has  
witnessed*

*significant  
progress.*

*Meanwhile, as the  
country gears up to  
host several  
important sporting  
events in the  
coming years, most  
notably the 2022  
FIFA World Cup,  
numerous big-*

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Market 2015-2019

*ticket*

*infrastructure*

*builds continue to  
expand the  
construction sector.*

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Evaluation*

*Preparation,  
Characterization,  
and Testing*

*Nanocosmetics*

*Grand Challenges  
in Marine*

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Biotechnology  
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Public Health

*Consequences of E-  
Cigarettes*

*The Report: Qatar  
2015*

***Sustainability in  
Denim provides  
the latest  
information on  
sustainable fabrics  
and practices.  
From cotton***

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***farming, to  
manufacture and  
end of life  
disposal, denim  
has extensive  
effects on the  
environment,  
inclusive of water  
consumption and  
contamination,  
destruction of  
large-scale  
ecosystems and  
transportation***

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***pollution. Additionally, recent developments in the manufacture of denim, such as the use of textiles, including elastane and polyester, have led to limitations in the high end recycling of denim. This book includes an***

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***introduction  
covering the  
history,  
manufacture and  
lifecycle of denim.  
It deals with the  
sustainability  
aspects of denim  
by addressing  
three important  
pillars of  
sustainability, the  
environmental,  
social and***



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***economic aspects,  
that when  
combined, present  
a unique approach  
in comparison to  
other books on the  
topic. The book  
primarily uses case  
studies to examine  
sustainability  
challenges  
throughout the  
denim lifecycle,  
and to evaluate***

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***new green  
initiatives and  
recycling  
processes. It will  
be of great use to  
industry  
professionals,  
sustainability  
managers, textile  
industry  
researchers and  
denim  
manufacturers.  
Reviews and***

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**studies denim from  
a sustainability  
perspective,  
addressing its  
major  
environmental,  
social and  
economic impacts  
Provides the  
reader with a  
fundamental  
knowledge of the  
history,  
manufacture and**

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***lifecycle of denim,  
thus enabling a  
holistic view of  
denim  
sustainability  
Presents new  
green initiatives  
for the processing  
and recycling of  
denim products for  
promotion and use  
amongst  
sustainability  
groups***

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***This book presents an overview of various types of lignin and their unique structures and properties, as well as utilizations of crude or modified technical lignin for high-value bioproducts such as lignin-based PF resins/adhesives,***

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**epoxy resins, PF  
foams, PU foams,  
rubber  
reinforcement and  
carbon fibers and  
as dispersants in  
drilling fluids in  
the oil and gas  
industry. It  
subsequently  
discusses various  
thermal/chemical  
modification  
techniques**

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***(pyrolysis, direct  
liquefaction and de-  
polymerization) for  
converting lignin  
into oils and  
chemical  
feedstocks, and  
the utilization of  
crude lignin, lignin-  
derived oils or  
depolymerized  
lignins (DLs) of  
reduced molecular  
weights and***

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***improved reactivity to produce lignin-based PF resins/adhesives, PF/PU foams and epoxy resins. The book will interest and benefit a broad readership (graduate students, academic researchers, industrial***



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**researchers and practitioners) in various fields of science and technology (chemical engineering, biotechnology, chemistry, material science, forestry, etc.).**  
**Chunbao (Charles) Xu, PhD, is currently a**

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**Professor of  
Chemical  
Engineering and N  
SERC/FPI Innovation  
s Industrial  
Research Chair in  
Forest Biorefinery  
at the University of  
Western Ontario,  
Canada. Fatemeh  
Ferdosian, PhD, is  
currently a  
postdoctoral fellow  
at the University of**

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***Waterloo, Canada.  
The construction  
industry is  
bombarded with  
ever-changing  
building materials  
—components of  
which are more  
and more difficult,  
if not impossible,  
to identify.  
Building material  
emissions have  
been implicated as***

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**a major source of  
indoor air**

**pollution, and toxic  
gases, often  
unidentified, are  
generated in  
building fires.**

**Building Materials:  
Product Emission  
and Combustion  
Health Hazards  
undertakes the  
task of identifying  
building materials**

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***emission and  
combustion health  
hazards. This  
practical guide  
introduces the  
complex world of  
polymers  
commonly used in  
building materials  
along with  
plasticizers and  
additives that are  
not regulated by  
OSHA. It also***

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**explores the topic  
of building  
materials as they  
relate to function  
and their emission  
s/combustion  
products along  
with thermal  
decomposition and  
combustion  
products as they  
relate to fire first  
responders.**

**Engaging**

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***environmental  
professionals,  
construction  
management  
firms, architects,  
first respondents,  
and students, this  
valuable reference  
delivers a  
comprehensive  
spectrum of  
knowledge needed  
to face the  
challenges of***

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**managing building  
materials in the  
twenty-first  
century.**

***Awareness is the  
first line of  
defense!***

***The 2017 Fifth  
International  
Conference on  
Management and  
Technology in  
Knowledge,  
Service, Tourism &***



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**Hospitality (SERVE  
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2017) was held on  
21-22 October  
2017 and on 30  
November 2017, in  
Bali, Indonesia and  
at the Financial  
University under  
the Government of  
the Russian  
Federation,  
Moscow, Russia.  
The theme of the  
conference was**

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***"Financial and Economic Tools Used in the World Hospitality Industry". Conference contributions dealt with various interdisciplinary research topics, particularly in the fields of social sciences, economics,***

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***business,  
management,  
education, and  
finance. Through  
this conference  
proceedings  
volume, we  
propose to launch  
a renewed  
discussion of how  
financial and  
economic tools can  
be used in the  
world hospitality,***

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**service, and  
tourism industries.**

***The purpose of this  
volume is to  
develop new  
theoretical and  
empirical  
knowledge that  
explores the  
possibilities of  
developing  
tourism,  
hospitality, service  
industries in***

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**sharing economy.  
These proceedings  
should be of  
interest to  
academics and  
professionals in  
the wider field of  
social sciences,  
including  
disciplines such as  
education,  
psychology,  
tourism and  
knowledge**

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**management.**

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**Synthetic Polymer**

**Chemistry**

**Innovations and**

**Outlook**

**Forest Value Chain**

**Optimization and**

**Sustainability**

**Back to the Past?**

**Sustainable**

**Development in**

**Africa**

**Proceedings of the**

**2015 International**

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**Conference on  
Materials  
Engineering and  
Environmental  
Science  
(MEES2015),  
Wuhan, China,  
September  
25-27, 2015**

This proceedings is a collection of selected papers presented at the 2015 International Conference on

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Environmental Science  
and Sustainable

Development (ICESSD  
2015), which was held on  
October 25 – 26, 2015,  
Bangkok, Thailand.

Issues covered include  
environment protection  
and sustainable  
development.

Researchers working in  
these two areas should  
find results in the  
proceedings enlightening



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and topics discussed  
challenging.

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Stone Dust: A

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in an Electrically-  
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Ozonation (Suntree  
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Channarong Uamthong)  
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Two-Stage Culture (N A  
Zakariah, N Abd  
Rahman, F Hamzah, T  
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Filter for CO<sub>2</sub>

Methanation (D H

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Ailaoshan Mts., Yunnan,

China (X L Li, J M Feng,  
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Xu) Desulfurization of  
Oil by Recombinant

Rhodococcus Gordoniae  
Strain R3 (Theeta

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(Co-) Functionalized  
TiO<sub>2</sub> Containing  
Photoreactive Hybrid  
Surfaces Against  
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Staphylococcus Aureus  
and Escherichia Coli (I.  
D é k á ny, Sz P Tall ó sy  
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from Seeds of Millettia  
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been considered Earth's  
last frontier of

exploration. Recent  
advances in molecular  
techniques are providing  
the necessary tools to  
access on a larger scale  
the still-untapped ocean  
resources and,  
consequently, unveil the  
promise of the blue  
biotechnology.

Governments are  
recognizing the potential

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of marine biotechnology to provide solutions to some of the Grand Challenges of the 21st Century such as sustainable energy and food sources, identification of novel drugs for improved health treatments, and providing new industrial materials and processes. For this reason, advances in marine biotechnology

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Making Joseph  
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with and

commitment to  
existential danger.

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simultaneous  
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disruption since  
1945, he focuses  
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have produced  
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disasters. Masco  
assesses the  
memory practices,  
visual culture,

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concepts of  
danger, and toxic  
practices that, in  
combination, have  
generated a U.S.  
national security  
culture that  
promises ever  
more safety and  
comfort in  
everyday life but  
does so only by

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generating and  
deferring a vast  
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into the collective  
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this existential lag  
(i.e., the material  
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fallout of the  
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nuclear weapons  
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and petrochemical  
capitalism) informs  
life in the twenty-  
first century,  
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key moments  
when other futures  
were still possible  
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postnational  
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explains the preparation and utilization of oil palm biomass for advanced composite panel products. It introduces the fundamentals of oil palm biomass and wood-based panel products, including

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basic properties,  
durability,  
deterioration, and  
adhesives. It also  
includes in-depth  
information on  
processing and  
treatments  
organized by  
biomass type,  
covering oil palm  
trunk and lumber,

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vener, empty fruit bunches (EFBs), oil palm fronds, and other sources. Additionally, this book focuses on specific composite panel applications, explaining the utilization of oil palm biomass in specific products.

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Finally, current policy, economic and environmental factors, and supply considerations are discussed. The information contained in Oil Palm Biomass for Composite Panels will be of interest to researchers,

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scientists and  
advanced students  
in bio-based  
materials, polymer  
science,  
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well as industrial  
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palm biomass,  
wood-based  
products, and  
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processing and  
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resources that are  
organized by  
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fundamental  
aspects, including  
properties,  
durability,  
adhesives, policy  
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examines  
bioremediation  
technologies as a  
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electrification from  
anaerobic  
digesters,  
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wastewater  
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abatement; and  
the impact of  
diverse  
wastewater  
remediation  
techniques such  
as the use of  
nanofibers,  
microbes and  
genetically  
modified

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organisms;  
bioelectrochemical  
treatment;

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strategies. The

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working in the field  
of bioremediation.

The use of

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distinctive  
colourants and  
finishes has a  
significant impact  
on the aesthetic  
appeal and  
functionality of  
technical textiles.  
Advances in the  
textile chemical  
industry facilitate  
production of

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diverse desirable properties, and are therefore of great interest in the production of textile products with enhanced performance characteristics. Drawing on key research, Advances in the

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dyeing and  
finishing of  
technical textiles  
details important  
advances in this  
field and outlines  
their development  
for a range of  
applications. Part  
one reviews  
advances in dyes  
and colourants,

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including chromic  
materials, optical  
effect pigments  
and

microencapsulated  
colourants for  
technical textile  
applications. Other  
types of functional  
dyes considered  
include UV-  
absorbent, anti-



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microbial and  
water-repellent  
dyes. Regulations  
relating to the use  
of textile dyes are  
discussed before  
part two goes on  
to investigate such  
advances in  
finishing  
techniques as  
mechanical

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finishing, softening treatments and the use of enzymes. Surfactants, Inkjet printing of technical textiles and functional finishes to improve the comfort and protection of apparel are also explored. The use

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of nanotechnology  
in producing  
hydrophobic,  
super-hydrophobic  
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finishes is dealt  
with alongside  
coating and  
lamination  
techniques, before  
the book  
concludes with a

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discussion of  
speciality polymers  
for the finishing of  
technical textiles.

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contributors,  
Advances in the  
dyeing and

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finishing of  
technical textiles is  
a comprehensive  
guide for all those  
involved in the  
development,  
production and  
application of  
technical textiles,  
including textile  
chemists, colour  
technologists,

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colour quality  
inspectors, product  
developers and  
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important  
advances in the  
textile chemical  
industry Considers  
developments in  
various dyes and  
colourants used in

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the industry,  
including water  
repellent,  
functional and anti-  
microbial dyes  
Chapters also  
examine advances  
in finishing  
techniques, the  
use of  
nanotechnology  
and speciality

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polymers in  
technical textiles  
Safety and Health  
in Composite  
Industry  
Fostering  
Sustainability in  
one of the World's  
Most Promising  
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the Food Industry  
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Dyeing and  
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This book provides the latest developments on safety practices utilized in composite manufacturing facilities for students, workers, engineers, and other participants. It includes commentary from

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academic experts in  
the field who present  
cutting-edge  
research on  
advanced composite  
materials.

Illustrations, figures,  
and tables are  
included in this book  
in order to make it  
easier for students,  
workers, engineers,

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and other participants to understand the contents of this book. The end user knows the safety and health that should be practiced in composite industry and their right in composite industry. Besides that, the

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composites industry  
players can upgrade  
their current safety  
system to the  
recommended  
practiced system. A  
lot of problems are  
solved by integrate  
the current system  
and advanced  
technology system  
from extensive

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research.

Formaldehyde is virtually ubiquitous in the modern environment due to its cost-effective nature, its use in resin formation, and its preservative properties. Though formaldehyde is necessary for many

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products and  
processes important  
to the world's  
economy, this  
economic  
dependence on  
formaldehyde comes  
at a cost to public  
health. Growth and  
consequent  
industrialization rely  
heavily on

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formaldehyde use.  
New buildings—residences, public places, and offices—are not only built with timber preserved by formaldehyde, but they are also furnished with wood, wool, and textile products that contain



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formaldehyde. The general population faces environmental exposure from indoor and outdoor air pollution, food, and even medicine. Scientific inquiry into formaldehyde exposure has grown in response. This book consolidates

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the new and established body of formaldehyde research in the scholarly community, focusing on exposure, genotoxicity, and adverse health outcomes. Through this resource, we hope to increase

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awareness of the broad range of health effects posed by formaldehyde exposure, and to encourage interdisciplinary interest, as well as research, into this pervasive compound—especially in the United States and

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China, where formaldehyde production and usage is high. This book will be useful to researchers of environmental and occupational exposure, students, and government regulators and anyone exposed to

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formaldehyde in the  
workplace and/or at  
home.

This book serves the  
purpose of  
documenting and  
promoting African  
experiences on  
sustainable  
development, which  
encompasses both,  
formal and non-

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formal education.

Sustainable

development is very  
important to Africa,  
but there is a paucity  
of publication which  
documents and

promotes

experiences from  
African countries.

Due to their

complexity, the

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interrelations  
between social,  
economic and  
political factors  
related to sustainable  
development,  
especially at  
universities, need to  
be better understood.  
There is also a real  
need to showcase  
successful examples

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of how African institutions are handling their sustainability challenges. It is against this background that this book has been produced. It is a truly interdisciplinary publication, useful to



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scholars, social  
movements,  
practitioners and  
members of  
governmental  
agencies and private  
companies,  
undertaking research  
and/or executing  
projects focusing on  
sustainability from  
across Africa. As

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African nations  
strive to pursue the  
UN Sustainable  
Development Goals,  
it is imperative to  
cater for the  
information needs  
seen across the  
continent and foster  
the dissemination of  
experiences and case  
studies, which may

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support both, on-going and future efforts. The scope of the book is deliberately kept wide, and we are looking for contributions across the spectrum of sustainable development from business and

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the textile industry,  
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oligo/polymeric  
versions, are  
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materials from  
other than  
cellulosic  
resources;  
microcrystalline

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cellulose and  
related polymer  
composites; tannin-  
based foam;  
renewable  
feedstock vanillin  
derived polymer  
and composites;  
silk biocomposites;  
bio-derived  
adhesives and  
matrix polymers;

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biomass based  
formaldehyde-free  
bio-resin ; isolation  
and  
characterization of  
water soluble  
polysaccharide;  
bio-based fillers;  
keratin based  
materials in  
biotechnology;  
structure of

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proteins adsorbed  
onto bioactive  
glasses for  
sustainable  
composite; effect  
of filler properties  
on the antioxidant  
response of starch  
composites;  
composite of  
chitosan and its  
derivate; magnetic

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biochar from  
discarded  
agricultural  
biomass;  
biodegradable  
polymers for  
protein and  
peptide  
conjugation;  
polyurethanes and  
polyurethane  
composites from

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bio-based /  
recycled

components.

This book provides  
the latest  
information on  
bioplastics and  
biodegradable  
plastics. The initial  
chapters introduce  
readers to the  
various sources



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and substrates for the synthesis of bioplastics and biodegradable plastics, and explain their general structure, physio-chemical properties and classification. In turn, the book discusses

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innovative  
methods for the  
production of  
bioplastics at the  
industrial level and  
for the microbial  
production of  
bioplastics. It  
highlights the  
processes that are  
involved in the  
conversion of agro-

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industrial waste  
into bioplastics,  
while also  
summarizing the  
mechanisms of  
biodegradation in  
bioplastics. The  
book addresses a  
range of  
biotechnological  
applications of  
bioplastics such as

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in agriculture, food packaging and pharmaceutical industry, as well as biomedical applications.

Nanotechnology is increasingly used in the food industry in the production, processing, packaging, and

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preservation of foods. It is also used to enhance flavor and color, nutrient delivery, and bioavailability, and to improve food safety and in quality management.

Nanotechnology  
Applications in the

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Food Industry is a comprehensive reference book containing exhaustive information on nanotechnology and the scope of its applications in the food industry. The book has five sections delving

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on all aspects of  
nanotechnology  
and its key role in  
food industry in the  
present scenario.

Part I on  
Introduction to  
Nanotechnology in  
Food Sector  
covers the  
technological basis  
for its application

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in food industry  
and in agriculture.

The use of  
nanosized foods  
and nanomaterials  
in food, the safety  
issues pertaining  
to its applications  
in foods and on  
market analysis  
and consumer  
perception of food



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nanotechnology  
Market 2015-2019  
has been

discussed in the  
section. Part II on  
Nanotechnology in  
Food Packaging  
reviews the use of  
nanopolymers,  
nanocomposites  
and  
nanostructured  
coatings in food

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packaging. Part III  
on Nanosensors  
for Safe and  
Quality Foods  
provides an  
overview on  
nanotechnology in  
the development  
of biosensors for  
pathogen and food  
contaminant  
detections, and in

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sampling and food  
quality

management. Part  
IV on

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for Nutrient

Delivery in Foods  
deals with the use  
of nanotechnology  
in foods for

controlled and  
effective release of

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nutrients. Part V  
on Safety  
Assessment for  
Use of  
Nanomaterials in  
Food and Food  
Production  
deliberates on the  
benefits and risks  
associated with  
the extensive and  
long term

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applications of  
nanotechnology in  
food sector.

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Building Materials  
in Sustainable  
Construction:  
Healthy and  
Sustainable  
Materials for the  
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provides a comprehensive overview of the issues associated with the selection of materials for sustainable construction, proposing a holistic and integrated approach. The

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book evaluates the issues involved in choosing materials from an ecosystem services perspective, from the design stage to the impact of materials on the health of building users. The three main sections of

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the book discuss building materials in relation to ecosystem services, the implications of materials choice at the design stage, and the impact of materials on building users and their health. The



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final section  
focuses on specific  
case studies that  
illustrate the  
richness of  
solutions that  
existed before the  
rise of  
contemporary  
construction and  
that are consistent  
with a sustainable

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approach to  
creating built  
environments.

These are followed  
by modern  
examples which  
apply some, if not  
all, of the  
principles  
discussed in the  
first three sections  
of the book.

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Provides a holistic  
and integrated  
approach to the  
issues associated  
with the selection  
of materials for  
sustainable  
construction

Provides a  
thorough  
understanding of  
ecosystem

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services based on  
ecology research  
for built  
environment  
design Provides an  
original review of  
the impact of  
materials on  
human health  
Provides case  
studies to illustrate  
the points above

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International  
Conference on  
Environmental  
Science and  
Sustainable  
Development  
(ICESSD 2015)  
Materials  
Engineering and  
Environmental  
Science  
Bio-based Wood

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Issues in Global  
Business  
From Ideas to  
Products  
Product Emission  
and Combustion  
Health Hazards  
*Handbook of Hygiene  
Control in the Food  
Industry, Second  
Edition, continues to*

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*be an authoritative reference for anyone who needs hands-on practical information to improve best practices in food safety and quality. The book is written by leaders in the field who understand the complex issues of control surrounding food industry design,*

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*operations, and  
processes,  
contamination  
management methods,  
route analysis  
processing, allergenic  
residues, pest  
management, and  
more. Professionals  
and students will find  
a comprehensive  
account of risk  
analysis and*



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management solutions  
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they can use to

minimize risks and  
hazards plus tactics  
and best practices for  
creating a safe food  
supply, farm to fork.  
Presents the latest  
research and  
development in the  
field of hygiene,  
offering a broad range  
of the microbiological

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*risks associated with  
food processing*

*Provides practical  
hygiene related  
solutions in food  
facilities to minimize  
foodborne pathogens  
and decrease the  
occurrence of  
foodborne disease  
Includes the latest  
information on biofilm  
formation and*

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*detection for  
prevention and  
control of pathogens  
as well as pathogen  
resistance*

*Adhesive bonding  
plays an increasing  
role in the forest  
product industry and  
is a key factor for  
efficiently utilizing  
timber and other  
lignocellulosic*

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*resources. As  
synthetic wood*

*adhesives are mostly  
derived from depleting  
petrochemical  
resources and have  
caused increasing  
environmental  
concern, natural  
product and  
byproduct-derived  
adhesives have  
attracted much*

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*attention in the last decades. Although adhesives made from plant and animal sources have been in existence since ancient times, increased knowledge of their chemistry and improved technical formulation of their preparation are still needed to promote*

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*their broader  
industrial  
applications. The  
primary goals of this  
book are to (1)  
synthesize the  
fundamental  
knowledge and latest  
research on bio-based  
adhesives from a  
remarkable range of  
natural products and  
byproducts, (2)*

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*identify need areas  
and provide directions  
of future bio-based  
adhesive research,  
and (3) help  
integrating research  
findings in practical  
adhesive application  
for maximal benefits.  
This book covers  
information on a  
variety of natural  
products and*

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*byproducts and the latest research on formulation, testing and improvement of the relevant adhesives in fifteen chapters written by an international group of accomplished contributors. This book will serve as a valuable reference source for university*



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*faculty, graduate  
students, research  
scientists, agricultural  
and wood engineers,  
international  
organization  
advocators and  
government agency  
regulators who work  
and deal with  
enhanced utilization  
of agricultural and  
forest products and*

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*byproducts.*

*Advances in Carbon  
Management*

*Technologies*

*comprises 43 chapters  
contributed by experts  
from all over the*

*world. Volume 1 of the  
book, containing 23*

*chapters, discusses the  
status of technologies  
capable of yielding*

*substantial reduction*

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*of carbon dioxide  
emissions from major  
combustion sources.*

*Such technologies  
include renewable  
energy sources that  
can replace fossil  
fuels and technologies  
to capture CO<sub>2</sub> after  
fossil fuel combustion  
or directly from the  
atmosphere, with  
subsequent permanent*

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*long-term storage.  
The introductory  
chapter emphasizes  
the gravity of the  
issues related to  
greenhouse gas  
emission global  
temperature  
correlation, the state  
of the art of key  
technologies and the  
necessary emission  
reductions needed to*

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*meet international  
warming targets.*

*Section 1 deals with  
global challenges  
associated with key  
fossil fuel mitigation  
technologies,  
including removing  
CO<sub>2</sub> from the  
atmosphere, and  
emission  
measurements.*

*Section 2 presents*

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*technological choices  
for coal, petroleum,  
and natural gas for  
the purpose of  
reducing carbon  
footprints associated  
with the utilization of  
such fuels. Section 3  
deals with promising  
contributions of  
alternatives to fossil  
fuels, such as  
hydropower, nuclear,*

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*solar photovoltaics,  
and wind. Chapters 19  
of this book is freely  
available as a  
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Routledge web page at*  
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<https://www.routledge.com//9780367198428>

*This book addresses the application of nanotechnology to cosmetics. Edited by three respected experts in the field, the book begins with a general overview of the science behind cosmetics and skin care today, and of the*



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*status quo of nanotechnology in cosmetics. Subsequent chapters provide detailed information on the different nanoparticles currently used in cosmetics; the production and characterization of nanoparticles and nanocosmetics; and*

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*regulatory, safety and  
commercialization*

*aspects. Given its  
scope, the book offers  
an indispensable  
guide for scientists in  
academia and  
industry, technicians  
and students, as well  
as a useful resource  
for decision-makers in  
the field and consumer  
organizations.*

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is available open*

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[link.springer.com](http://link.springer.com).*

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Formaldehyde*

*Conversion of Lignin  
into Bio-Based  
Chemicals and  
Materials*

*The Future of Fallout,  
and Other Episodes in*

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*Radioactive World-  
Market 2015 2019  
Making*

*Sustainability in  
Denim*

*Bioplastics for  
Sustainable  
Development*

Hydrogen is  
believed to be the  
energy source of  
the future,  
enabling zero-  
emission and

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efficient  
production of  
power. This  
comprehensive  
publication  
presents a broad  
spectrum of  
various chemical  
aspects of  
hydrogen storage.  
The authors also  
address global  
climate change

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issues, carbon dioxide sequestration problems and CO<sub>2</sub>-based hydrogen storage. Wood composites as part of wood engineering materials has been reaching a constant developing trend,

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being used on a wide range of applications and becoming worldwide as a very promising alternate material face to traditional building materials such as concrete, metal and plastics. In this part of the series are treated

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aspects among which advances functionalities in laminates, the activation of natural fibres, the natural matrix, and others industrials manufacturing research advances for wood material as composite.

Polymeric



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materials form the  
basis of daily life.

Despite the great  
contribution of  
traditional  
methodologies  
such as anionic  
and radical  
polymerizations in  
preparing various  
functional  
polymers, the  
increasing demand

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for polymers with new structures and functions has inspired the development of new synthetic techniques. Many new polymerizations including click polymerization, controlled/living radical

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polymerization and  
multicomponent  
polymerization  
have been well  
developed.

Focusing on  
breakthroughs and  
recent progress,  
Synthetic Polymer  
Chemistry  
provides efficient  
tools for the  
synthesis of linear

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and topological  
polymers.

Chapters cover  
topics including  
fabrication of  
supramolecular  
polymers,  
organocatalytic  
synthesis and  
olefin  
co(polymerization)  
. This title will be a  
valuable reference

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for those working  
in polymer

chemistry, as well  
as students and  
researchers  
interested in opto-  
electronic,  
biological and  
materials  
sciences.

Millions of  
Americans use e-  
cigarettes. Despite

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their popularity, little is known about their health effects. Some suggest that e-cigarettes likely confer lower risk compared to combustible tobacco cigarettes, because they do not expose users to toxicants

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produced through  
combustion.

Proponents of e-  
cigarette use also  
tout the potential  
benefits of e-  
cigarettes as  
devices that could  
help combustible  
tobacco cigarette  
smokers to quit  
and thereby  
reduce tobacco-

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related health risks. Others are concerned about the exposure to potentially toxic substances contained in e-cigarette emissions, especially in individuals who have never used tobacco products



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Formaldehyde  
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such as youth and  
young adults.

Given their  
relatively recent  
introduction, there  
has been little time  
for a scientific  
body of evidence  
to develop on the  
health effects of e-  
cigarettes. Public  
Health

Consequences of

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E-Cigarettes  
Market 2015 2019

reviews and  
critically assesses  
the state of the  
emerging evidence  
about e-cigarettes  
and health. This  
report makes  
recommendations  
for the  
improvement of  
this research and  
highlights gaps

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that are a priority  
for future  
research.

Airborne Particles  
and Settled Dust  
Indoor

Environment  
Recent Advances  
in Polyphenol  
Research  
Wood Composites  
Materials for a  
Healthy

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Ecological and  
Sustainable Built  
Environment

**The Global Gender  
and Environment  
Outlook (GGEO)**

**provides an  
overview of critical  
evaluations and  
analyses of the  
interlinkages  
between gender and  
the environment,**

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**and their  
importance for  
gender-sensitive  
policymaking and  
actions. The GGEO  
was first proposed  
by the Network of  
Women Ministers  
and Leaders for the  
Environment  
(NWMLE) to UNEP  
at the United  
Nations Conference  
on Sustainable**

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**Development  
(Rio+20). The 2014  
United Nations  
Environment  
Assembly  
subsequently  
welcomed the  
development of the  
GGEO, and the use  
of social science  
information and  
gender relevant  
indicators to  
examine the links**

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**between gender and  
the environment.**

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describes policy  
options and  
concrete  
opportunities to  
contribute to the  
future we want - a  
future of justice and  
equality that leaves  
no one behind. It  
reflects and builds  
on the ground-**

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**breaking work of  
hundreds of  
scientists, policy  
experts, gender  
advocates and  
members of  
community groups.  
And it examines a  
wide range of  
topics, including  
food production,  
water and  
sanitation, energy,  
sustainable**



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**consumption and  
production,  
fisheries and fishing  
communities, and  
forests and those  
who depend on  
them for their  
livelihoods.**

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Approaches to  
Improving  
Consumer Health  
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