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Answers

C7 Chemistry For A Sustainable World Workbook Answers

This book is part of a two-volume work that offers a unique blend of information on realistic evaluations of

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catalyst-based synthesis processes using green chemistry principles and the environmental sustainability applications of such processes for biomass conversion, refining, and petrochemical production. The volumes provide a comprehensive resource of state-of-the-art technologies and green

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chemistry methodologies from researchers, academics, and chemical and manufacturing industrial scientists. The work will be of interest to professors, researchers, and practitioners in clean energy catalysis, green chemistry, chemical engineering and manufacturing, and environmental

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sustainability. This volume focuses on the potentials, recent advances, and future prospects of catalysis for biomass conversion and value-added chemicals production via green catalytic routes. Readers are presented with a mechanistic framework assessing the development of product selective

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catalytic processes for biomass and biomass-derived feedstock conversion. The book offers a unique combination of contributions from experts working on both lab-scale and industrial catalytic processes and provides insight into the use of various catalytic materials (e.g., mineral acids,

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heteropolyacid, metal catalysts, zeolites, metal oxides) for clean energy production and environmental sustainability.

Increasing pressure on global reserves of petroleum at a time of growing demand for personal transport in developing countries, together with

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concerns over atmospheric pollution and carbon dioxide emissions, are leading to a requirement for more sustainable forms of road transport. Major improvements in the efficiency of all types of road vehicles are called for, along with the use of fuels derived from alternative sources, or entirely new

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fuels. Towards Sustainable Road Transport first describes the evolution of vehicle designs and propulsion technologies over the past two centuries, before looking forward to possible new forms of energy to substitute for petroleum. The book also discusses the political and socio-economic drivers for

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change, investigates barriers to their broad implementation, and outlines the state-of-the-art of candidate power sources, advanced vehicle design, and associated infrastructure. The comprehensive technical informationsupplied by an expert author team ensures that Towards

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Sustainable Road Transport will provide readers with a clear understanding of the ongoing progress in this field and the challenges still to be faced. Drivers of technological change in road transport and the infrastructure requirements Discussion of alternative fuels for internal combustion engines

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and fuel conversion technologies
Detailed exploration of current and
emerging options for vehicle propulsion,
with emphasis on hybrid/ battery
electric traction, hydrogen, and fuel
cells Comparative analysis of vehicle
design requirements, primary power
source efficiency, and energy storage

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Sustainable Development in Practice: Case Studies for Engineers and Scientists, Second Edition explores the concept of sustainable development and its implications for science and engineering. It looks at how sustainability criteria can be combined

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with traditional scientific and engineering considerations to design and operate industrial systems in a more sustainable manner. Taking a life cycle approach to addressing economic, environmental and social issues, the book presents a series of new practical case studies drawn from a range of

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sectors, including mining, energy, food, buildings, transport, waste, and health. Written in an accessible style, the book opens with a general introduction to the concept of sustainable development and explores its practical implications for technical experts. Recognising that practical application of sustainable

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development depends on the context, the second part of the book is devoted to case studies. The case studies explore scientific and technical aspects alongside relevant environmental economic and social issues. The key features of this completely revised and updated second edition include: Twelve

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new chapters, including the case studies on nuclear energy, biofuels, aviation, buildings, urban transport, food, sanitation and health. Six completely revised chapters Coverage of a wide range of sustainability issues in both developed and developing countries Integration of scientific and technical

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aspects with economic, environmental and social considerations Discussion of policy implications Communication with the non-engaging and non-scientific audience Considered essential reading for all engineers and scientists concerned with sustainable development, Sustainable Development

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in Practice: Case Studies for Engineers and Scientists, Second Edition also provides key reading and learning materials for undergraduate and postgraduate science and engineering students.

In recent years the need for sustainable process design and alternative reaction

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routes to reduce industry's impact on the environment has gained vital importance. The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible. Specific examples written by experts from industry cover

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the possibilities of running industrial chemical processes in a sustainable manner and provide an up-to-date insight into the main concerns, e.g., the use of renewable raw materials, the use of alternative energy sources in chemical processes, the design of intrinsically safe processes,

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microreactor and integrated reaction/separation technologies, process intensification, waste reduction, new catalytic routes and/or solvent and process optimization.

Sustainability of Biomass through Bio-based Chemistry

Case Studies for Engineers and

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New Methodologies and Techniques for
a Sustainable Organic Chemistry
Without Metals or Other Endangered
Elements Part 1
Progress in Heterocyclic Chemistry
The construction materials

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industry is a major user of the world's resources. While enormous progress has been made towards sustainability, the scope and opportunities for improvements are significant. To further the effort for sustainable

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development, a conference on Sustainable Construction Materials and Technologies was held at Coventry University, Coventry, U.K., from June 11th - 13th, 2007, to highlight case studies and research on new and

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innovative ways of achieving sustainability of construction materials and technologies. This book presents selected, important contributions made at the conference. Over 190 papers from over 45 countries were

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accepted for presentation at the conference, of which approximately 100 selected papers are published in this book. The rest of the papers are published in two supplementary books. Topics covered in this

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book include: sustainable alternatives to natural sand, stone, and Portland cement in concrete; sustainable use of recyclable resources such as fly ash, ground municipal waste slag, pozzolan, rice-husk ash,

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silica fume, gypsum plasterboard (drywall), and lime in construction; sustainable mortar, concrete, bricks, blocks, and backfill; the economics and environmental impact of sustainable materials and

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structures; use of construction and demolition wastes, and organic materials (straw bale, hemp, etc.) in construction; sustainable use of soil, timber, and wood products; and related sustainable construction and

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rehabilitation technologies.

Biorefineries are becoming increasingly important in providing sustainable routes for chemical industry processes.

The establishment of bio-economic models, based on

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biorefineries for the creation of innovative products with high added value, such as biochemicals and bioplastics, allows the development of "green chemistry" methods in synergy with traditional chemistry. This

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reduces the heavy dependence on imports and assists the development of economically and environmentally sustainable production processes, that accommodate the huge investments, research and

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innovation efforts. This book explores the most effective or promising catalytic processes for the conversion of biobased components into high added value products, as platform chemicals and intermediates.

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With a focus on heterogeneous catalysis, this book is ideal for researchers working in catalysis and in green chemistry.

This book describes the enzyme-driven syntheses of industrially important compounds and chiral

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intermediates for chemicals and pharmaceuticals. The chapters describe recent technological advances in enzymatic and microbial transformations and are written by internationally renowned scientists and

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professors. The synthesis of industrially important molecules is described from the starting substrate to the final product and includes detailed mechanisms. This book addresses the use of various types of reactions

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catalyzed by microbial cells or enzymes derived from microbes in the production of industrially useful compounds and a variety of drugs. The production of chiral alcohols, amines, unnatural amino acids, esters, carboxylic

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acids, epoxides, hydroxylated compounds and drug metabolites as well as recent advances in enzyme catalyzed acylation, dehalogenation, esterification, oxidation-reduction, transamination,

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deamination, C-N, C-C, C-O bond formation, Baeyer-Villiger reaction and aldol as well as acyloin condensation reactions are covered. Cutting-edge topics such as directed evolution by gene shuffling and enzyme

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engineering to improve biocatalysts will be presented. Enzyme immobilization and reusability studies and enzymatic protection and deprotection are addressed as well. Chemical industries have to face

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the challenge of finding adequate processes to produce large quantities of new products, while at the same time decreasing both the impact on the environment and the risk of disaster. This book addresses

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this challenge. It discusses the problems of environmentally benign organic processes on an interdisciplinary approach. The book features experts in selective catalysis, development of new reagents and methods

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who present their recent results.

Sustainable Catalysis for
Biorefineries

Biomass Conversion and Green
Chemistry - Volume 1

Sustainable Synthesis of
Pharmaceuticals

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Green Chemistry

Chemistry, Extractives, Lignins,
Hemicelluloses and Cellulose

Copper Nanostructures: Next-
Generation of Agrochemicals for
Sustainable Agroecosystems

This book presents the unique

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mechanical, electrical, and optical properties of nanomaterials, which play an important role in the recent advances of energy-related applications. Different nanomaterials have been employed in energy saving, generation,

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harvest, conversion, storage, and transport processes very effectively and efficiently. Recent progress in the preparation, characterization and usage of 1D, 2D nanomaterials and hybrid architectures for energy-related applications and relevant

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technologies and devices, such as solar cells, thermoelectronics, piezoelectronics, solar water splitting, hydrogen production/storage, fuel cells, batteries, and supercapacitors is covered. Moreover, the book also

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highlights novel approaches in nanomaterials design and synthesis and evaluating materials sustainability issues. Contributions from active and leading experts regarding important aspects like the synthesis, assembly, and properties

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of nanomaterials for energy-related applications are compiled into a reference book. As evident from the diverse topics, the book will be very valuable to researchers working in the intersection of physics, chemistry, biology, materials

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science and engineering. It may set the standard and stimulates future developments in this rapidly emerging fertile frontier of nanomaterials for energy.

Focussing on catalysis without metals or other endangered

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elements, this book is an important reference for researchers working in catalysis and green chemistry.

This volume includes several perspectives on how to connect the United Nations Sustainable Development Goals with the 12

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principles of green chemistry, and green chemistry education.

Delving into the development of plasmonic nanosensors to detect toxic heavy metal ions in aqueous media, this book explores a significant and burgeoning branch of

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nanosensor technology based on plasmon resonance and serves as a guide for conducting research in this area. All types of nanosensors for water treatment and detection of heavy metals are also introduced.

Plasmonic Nanosensors for

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Detection of Aqueous Toxic Metals provides up-to-date data upon which researchers and ecologists, industrialists, and academicians can build to create a variety of plasmonic nanosensors. This book also covers paper-based devices

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based on plasmon for quantifying toxic metals in water and considers important applications of different plasmon-based nanomaterials—graphene, core-shell, quantum dots, nanoporous membrane, carbon nanotubes, and

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nanofibers. It is an accessible resource for all those involved in the field of nanosensors and their applications and can pave the way for a better understanding of nanosensor technology with regard to toxic metals. Key features: Gives

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an in-depth account of the
extraordinary optical property at the
nanoscale and its use in sensing
Offers up-to-date study and practical
results for academia, researchers,
and engineers working in water
treatment and purification Provides

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sensing application of thematic
nanomaterials such as quantum dots
and core-shell

Green Chemistry for Sustainable
Biofuel Production

Sustainable Development in Practice
Zeolites in Sustainable Chemistry

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Answers

Proceedings of the Conference on
Sustainable Construction Materials
and Technologies, 11-13 June 2007,
Coventry, United Kingdom
Green Chemistry and Computational
Chemistry
Chemistry: The Key to our

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Sustainable Future

This ready reference not only presents the hot and emerging topic of modern flow chemistry, it is also unique in illustrating the important connection to sustainable

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chemistry. Focusing on more sustainable methods and applications, the text extensively covers every important field from reaction time optimization to waste minimization, and from safety

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improvements to microwave applications. In addition, green metrics are presented as a key aspect of the book, helping readers to evaluate the efficiency of flow technologies and their impact on the overall

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efficiency of a chemical process. An invaluable handbook for every chemist working in the laboratory, whether in academia or industry.

When confronted with a

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problem in science, the way to proceed is not always obvious. The problem may seem intractable or there may be many possible solutions, with some better than others. Problem-Solving Exercises in

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***Green and Sustainable
Chemistry teaches students
how to analyze and solve real-
world problems that occur in
an environmental context, and
it encourages creativity in
developing solutions to***

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***situations based on events
that have actually taken place.
The problems described in
this book are relevant and
stimulating in learning and
understanding the principles
of green and sustainable***

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chemistry. They address various aspects of the field, including: Toxicity Waste generation and disposal Chemical accidents Energy efficiency New policy development The final chapter

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contains proposed solutions to the presented problems and provides commentaries and references to relevant literature. This book also prompts students to become more comfortable with the

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idea of multiple "correct" answers to problems. It emphasizes the reality that green chemistry is about making practical decisions and weighing multiple factors that are often conflicting, thus

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Answers

making it difficult or impossible to apply one perfect solution to a given situation. Problem-Solving Exercises in Green and Sustainable Chemistry prepares students to solve

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***challenging problems, whether
as green chemists, as
architects designing energy-
efficient buildings, or as
environmentally-conscious
citizens.***

Green chemistry already

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***draws on many techniques
and approaches developed by
theoretical chemists, whilst
simultaneously revealing a
whole range of interesting new
challenges for theoretical
chemists to explore.***

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Highlighting how work at the intersection of these fields has already produced beneficial results, Green Chemistry and Computational Chemistry: Shared Lessons in Sustainability is a practical,

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***informative guide to
combining green and
theoretical chemistry
principles and approaches in
the development of more
sustainable practices.
Beginning with an introduction***

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to both theoretical chemistry and green chemistry, the book goes on to explore current approaches being taken by theoretical chemists to address green and sustainable chemistry issues, before

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moving on to highlight ways in which green chemists are employing the knowledge and techniques of theoretical chemistry to help in developing greener processes. The future possibilities for

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***theoretical chemistry in
addressing sustainability
issues are discussed, before a
selection of case studies
provides good insight into
how these interactions and
approaches have been***

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***successfully used in practice.
Highlights the benefits of
green and theoretical
chemistry groups working
together to tackle
sustainability issues across
both academia and industry***

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***Supports readers in easily
selecting the most appropriate
path through the book for their
own needs Presents a range of
examples examining the
practical implications and
outcomes of interdisciplinary***

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approaches

***Chemistry for Sustainable
Development Springer Science
& Business Media***

***Problem-Solving Exercises in
Green and Sustainable
Chemistry***

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***Cleaner Combustion and
Sustainable World
Organic Chemistry
Methods and Applications
Integrating Green Chemistry
and Sustainable Engineering
Sustainable Industrial***

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Chemistry

Renewable fuel research and process development requires interdisciplinary approaches involving chemists and physicists from both scientific and engineering backgrounds. Here is an important volume that emphasizes green chemistry and green engineering

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principles for sustainable process development from an interdisciplinary point of view. It creates an enriching knowledge base on green chemistry of biofuel production, sustainable process development, and green engineering principles for renewable fuel production. This book includes chapters

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contributed by both research scientists and research engineers with significant experience in biofuel chemistry and processes. The book offers an abundance of scientific experimental methods and analytical procedures and interpretation of the results that capture the state-of-the-art knowledge

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in this field. The wide range of topics make this book a valuable resource for academicians, researchers, industrial practitioners and scientists, and engineers in various renewable energy fields. Key features:

- **Emphasizes green chemistry and green engineering principles for sustainable process**

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Answers

**development for biofuel production •
Discusses a wide array of biofuels from
algal biomass to waste-to-energy
technologies and wastewater treatment
and activated sludge processes •
Presents advances and developments in
biofuel green chemistry and green
engineering, including process**

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intensification

**(microwaves/ultrasound), ionic liquids,
and green catalysis • Looks at**

environmental assessment and

economic impact of biofuel production

The Earth's natural resources are finite

and easily compromised by

contamination from industrial

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chemicals and byproducts from the degradation of consumer products. The growing field of green and sustainable chemistry seeks to address this through the development of products and processes that are environmentally benign while remaining economically viable. Inorganic chemistry plays a

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critical role in this endeavor in areas such as resource extraction and isolation, renewable energy, catalytic processes, waste minimization and avoidance, and renewable industrial feedstocks. Sustainable Inorganic Chemistry presents a comprehensive overview of the many new developments

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taking place in this rapidly expanding field, in articles that discuss fundamental concepts alongside cutting-edge developments and applications. The volume includes educational reviews from leading scientists on a broad range of topics including: inorganic resources, sustainable

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synthetic methods, alternative reaction conditions, heterogeneous catalysis, photocatalysis, sustainable nanomaterials, renewable and clean fuels, water treatment and remediation, waste valorization and life cycle sustainability assessment. The content from this book will be added online to

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the Encyclopedia of Inorganic and Bioinorganic Chemistry.

Copper Nanostructures: Next-Generation of Agrochemicals for Sustainable Agroecosystems considers the impact of copper-based nanostructures on agri-food sectors. Sections highlight the green synthesis of

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copper nanoparticles, production mechanisms, eco-safety, and future perspectives, discuss the increasing importance of copper nanomaterials in plant protection applications, describe the use of copper nanostructures in plant science applications, cover antimicrobial applications, explore

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copper nanostructure applications, and summarize current applications in agroecosystems, such as copper nanoparticles as nanosensors, their negative ecological effects, estimation risks, and more. Assesses the impact of a large variety of copper-based nanostructures on the agri-food sector

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**Discusses how the properties of a variety of copper-based nanomaterials make them effective for agricultural applications Explains the challenges surrounding the mass production of copper-based nanomaterials
Cleaner Combustion and Sustainable World is the proceedings of the 7th**

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International Symposium on Coal Combustion which has a significant international influence. It concerns basic research on coal combustion and clean utilization, techniques and equipments of pulverized coal combustion, techniques and equipments of fluidized bed combustion, basic

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**research and techniques of emission control, basic research and application techniques of carbon capture and storage (CCS), etc. Professor Haiying Qi and Bo Zhao both work at the Tsinghua University, China
Encyclopedia of Renewable and Sustainable Materials**

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Answers

Green Biocatalysis

**Sustainable Construction Materials and
Technologies**

Ionic Liquids

Future Green Chemistry

**EMSG 2005 : Abbey Les Vaux de
Cernay, France, 23-25 May, 2005**

In the newly revised Thirteenth Edition

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of Organic Chemistry, a team of veteran chemistry educators delivers a practical exploration of the relationship between structure and reactivity. The book combines the most useful features of a functional group approach with an examination of reaction mechanisms. The book??s

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emphasis is on the common aspects of mechanisms and on the unifying features of functional groups. It demonstrates what organic chemistry is, as well as how it works. It relies heavily on examples from living systems and the physical world around us to illustrate crucial concepts.

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The Role of Catalysis for the Sustainable Production of Bio-fuels and Bio-chemicals describes the importance of catalysis for the sustainable production of biofuels and biochemicals, focused primarily on the state-of-the-art catalysts and catalytic processes expected to play a decisive

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role in the "green" production of fuels and chemicals from biomass. In addition, the book includes general elements regarding the entire chain of biomass production, conversion, environment, economy, and life-cycle assessment. Very few books are available on catalysis in production

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schemes using biomass or its primary conversion products, such as bio-oil and lignin. This book fills that gap with detailed discussions of: Catalytic pyrolysis of lignocellulosic biomass Hybrid biogasoline by co-processing in FCC units Fischer-Tropsch synthesis to biofuels (biomass-to-liquid process)

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Steam reforming of bio-oils to hydrogen With energy prices rapidly rising, environmental concerns growing, and regulatory apparatus evolving, this book is a resource with tutorial, research, and technological value for chemists, chemical engineers, policymakers, and

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students. Includes catalytic reaction mechanism schemes and gives a clear understanding of catalytic processes. Includes flow diagrams of bench-, pilot- and industrial-scale catalytic processing units and demonstrates the various process technologies involved, enabling easy selection of the best

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process Incorporates many tables,
enabling easy comparison of data
based on a critical review of the
available literature

This book is devoted to the new
development of zeolitic catalysts with
an emphasis on new strategies for the
preparation of zeolites, novel

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techniques for their characterization and emerging applications of zeolites as catalysts for sustainable chemistry, especially in the fields of energy, biomass conversion and environmental protection. Over the years, energy and the environment have become the most important

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global issues, while zeolitic catalysts play important roles in addressing them. With individual chapters written by leading experts, this book offers an essential reference work for researchers and professionals in both academia and industry. Feng-Shou Xiao is a Professor at the Department

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of Chemistry, Zhejiang University, China. Xiangju Meng is an Associate Professor at the Department of Chemistry, Zhejiang University, China. Materials from renewable resources are receiving increased attention, as leading industries and manufacturers attempt to replace declining

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petrochemical-based feedstocks with products derived from natural biomass, such as cereal straws.

Cereal straws are expected to play an important role in the shift toward a sustainable economy, and a basic knowledge of the composition and structure of cereal straw is the key to

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using it wisely. Cereal Straw as a Resource for Sustainable Biomaterials and Biofuels: Chemistry, Extractives, Lignins, Hemicelluloses and Cellulose provides an introduction to straw chemistry. Topics discussed include the structure, ultrastructure, and chemical composition of straw; the

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structure and isolation of extractives from the straw; the three main components of straw: cellulose, hemicelluloses, and lignins; and chemical modifications of straw for industrial applications. This book will be helpful to scientists interested in the areas of natural resource

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management, environmental chemistry, plant chemistry, material science, polysaccharide chemistry, and lignin chemistry. It will also be of interest to academic and industrial scientists/researchers interested in novel applications of agricultural residues for industrial and/or recycling

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technologies. Provides the basics of straw composition and the structure of its cell walls Details the procedures required to fractionate straw components to produce chemical derivatives from straw cellulose, hemicelluloses, and lignins Elucidates new techniques for the production of

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biodegradable materials for the energy sector, chemical industry, and pulp and paper business

Towards Sustainable Road Transport
Catalysis for Clean Energy and
Environmental Sustainability
Developments in Sustainable
Chemical and Bioprocess Technology

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Plasmonic Nanosensors for Detection
of Aqueous Toxic Metals
Plant Growth Promoting Rhizobacteria
for Agricultural Sustainability
Chemistry for Sustainable
Development

This volume covers
everything readers need to

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know about green chemistry. It covers topics including green chemistry engineering, green catalysis (homogeneous, heterogeneous and

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biocatalysis) and separations techniques as well as solvents like supercritical fluids and ionic liquids.

Platform Chemical

Biorefinery: Future Green

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Chemistry provides information on three different aspects of platform chemical biorefinery. The book first presents a basic introduction to the

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industry beneficial for
university students, then
provides engineering
details of existing or
potential platform
chemical biorefinery
processes helpful to

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technical staff of biorefineries. Finally, the book presents a critical review of the entire platform chemical biorefinery process, including extensive global

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biorefinery practices and their potential environmental and market-related consequences. Platform chemicals are building blocks of different valuable

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chemicals. The book evaluates the possibility of renewable feedstock-based platform chemical production and the fundamental challenges associated with this

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objective. Thus, the book is a useful reference for both academic readers and industry technical workers. The book guides the research community working in the field of

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platform chemical
biorefinery to develop new
pathways and technologies
in combination with their
market value and
desirability. Offers
comprehensive coverage of

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Answers

platform chemicals
biorefineries, recent
advances and technology
developments, potential
issues for preventing
commercialization, and
solutions Discusses

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existing technologies for platform chemicals production, highlighting benefits as well their possible adverse effects on the environment and food security Includes a

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global market analysis of
platform chemicals and
outlines industry
opportunities Serves as a
useful reference for both
academic readers and
industry technical workers

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Environmental sustainability and development is of critical importance. Technological advances in the production of new energy sources are making their way into our

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lives in more and more depth every day. However, there is an urgent need to address the technological challenges and advancement of the various chemical and bio-processes to

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maintain the dynamic sustainability of our energy needs. Toward that end, an attempt is being made to look at recent advances, key issues still faced and where possible,

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offer suggestions on alternative technologies to optimize sustainable processes. Still considered a new area of science, energy sources themselves are still being

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'discovered'...meaning,
what is financially viable
in the current marketplace
is changing. For example,
energy from plants has not
been financially viable in
the past because of the

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high cost of growing,
harvesting, breaking down
cell walls, disposal of
waste products, etc.

Materials used to derive
energy from sustainable
resources is changing,

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making previously high-cost processes more efficient. It is crucial that the industry as a whole works in tandem to develop crops that new technological advances

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make financially feasible.
This book will cover
recent advances in the
chemicals, bioprocesses
and other materials used
in growing and extracting
energy from sustainable

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products. Membrane/cell wall digestion issues will also be covered as well as recovering maximal amounts of energy from sources to limit waste. Finally a section on safety and

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control will be presented with has been poorly covered in other publications. ?

Solvents are ubiquitous throughout the chemical industry and are found in

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many consumer products. As a result, interest in solvents and their environmental impact has been steadily increasing. However, in order to achieve maximum

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integration of new green solvents into the relevant chemical sectors, clarification of the social, economic, and environmental implications of solvent substitution

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are needed. This book explores the solvent life cycle, highlighting the challenges faced at various points, from production, through the supply-chain and

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downstream use to end-of-life treatment. It also discusses the potential benefits that a green chemistry and bio-based economy approach could bring. The current state-

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of-the-art of green solvents is evaluated along these lines, in addition to reviewing their applications with an appreciation of sustainability criteria.

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Providing a critical assessment on emerging solvents and featuring case studies and perspectives from different sectors, this is an important reference for

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academics and industrialists working with solvents, as well as policy-makers involved in bio-based initiatives. Electro-active Materials and Sustainable Growth

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and UN Sustainability

Development Goals

Cereal Straw as a Resource
for Sustainable

Biomaterials and Biofuels

Sustainable Flow Chemistry

Twenty First Century

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Science

Sustainable Solvents

**Progress in Heterocyclic
Chemistry, Volume 33 is the
latest in this annual review
series commissioned by the
International Society of**

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**Heterocyclic Chemistry (ISHC).
Volumes in the series contain
both highlights of the previous
year's literature on
heterocyclic chemistry and
articles on new developing
topics of particular interest.**

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**Chapters in this new release
are written by leading
researchers who present a
systematic survey of the
important original material
reported in the literature of
heterocyclic chemistry in**

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2020. As with previous volumes in the series, this book will enable academic and industrial chemists and advanced students to keep abreast of developments in heterocyclic chemistry.

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**Recognized as the premiere
review of heterocyclic
chemistry Includes
contributions from leading
researchers in the field
Provides a systematic survey
of important 2020 heterocyclic**

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**chemistry literature Presents
articles on new and
developing topics of interest
to heterocyclic chemists
Over the past decade, the
population explosion, rise in
global warming, depletion of**

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**fossil fuel resources and
environmental pollution has
been the major driving force
for promoting and
implementing the principles of
green chemistry and
sustainable engineering in all**

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sectors ranging from chemical to environmental sciences. It is noteworthy to mention that production of biofuels, exploitation of renewable energy sources and use of ecologically safer products in

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applied sectors are becoming increasingly important for the development of alternative sustainable technologies. Integrating Green Chemistry and Sustainable Engineering focusses on latest sustainable

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technologies and developments and describes how sustainable chemistry and engineering practices are being applied and integrated in various industrial sectors. The book addresses emerging

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**topics including biofuel
production, CO₂ conversation
to green fuels, advanced green
polymers in coating
applications, biological
macromolecules in medical
sector, biofertilizers for**

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**agricultural sector,
bioadsorption and much more.
To meet the food security
needs of the 21st century, this
book focuses on ecofriendly
and sustainable production
technologies based on plant**

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**growth promoting
rhizobacteria (PGPR). It is
estimated that the global
population could increase to 9
billion by 2050. Further, the
amount of land devoted to
farming has decreased. Soil is**

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a living entity, and is not only a valuable natural resource for agricultural and food security, but also for the preservation of all life processes. Agricultural productivity rests on the foundation of microbial

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diversity in the soil, and in recent years, PGPR have emerged as an important and promising tool for sustainable agriculture. The injudicious use of agrochemicals by farmers has created a range of

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negative impacts, not only threatening the environment, but also destroying useful microorganisms in the soil. The efficient use of PGPR reduces the need for these chemicals while

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Answers

**simultaneously lowering
production costs. In turn,
increased yields could provide
a more favourable
environment and encourage
sustainability. This book
assesses the impacts of PGPR**

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on crops, environmental and socio-economic sustainability, and demonstrates these ecofriendly technologies' three critical advantages, namely (a) enhanced crop productivity, (b) reduced

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**application of agrochemicals,
and (c) increased incomes for
farmers. Besides offering an
economically attractive and
ecologically sound means of
augmenting the nutrient
supply and combatting soil-**

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borne pathogens, PGPR play an important part in boosting soil fertility, bioremediation and stress management for the development of ecofriendly and sustainable agriculture.

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Answers

**Encyclopedia of Renewable
and Sustainable Materials
provides a comprehensive
overview, covering research
and development on all
aspects of renewable,
recyclable and sustainable**

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Answers

materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for agricultural products and

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additional revenue streams for farmers, as well as significantly reduce carbon dioxide (CO₂) emissions, manufacturing energy requirements, manufacturing costs and waste. This book

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**provides researchers,
students and professionals in
materials science and
engineering with tactics and
information as they face
increasingly complex
challenges around the**

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**development, selection and
use of construction and
manufacturing materials.
Covers a broad range of topics
not available elsewhere in one
resource Arranged
thematically for ease of**

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Answers

navigation Discusses key features on processing, use, application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that

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**will lead to the reduction of
carbon emissions and
enhance protection of the
natural environment with
regard to sustainable
materials**

Synthesis, Characterization

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and Catalytic Applications

**The Role of Catalysis for the
Sustainable Production of Bio-
fuels and Bio-chemicals**

**Green Approaches in
Medicinal Chemistry for
Sustainable Drug Design**

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**Sustainable Inorganic
Chemistry**

Sustainable Catalysis

**Perspectives from Research,
Business and International
Policy**

Sustainable Energy, Towards a

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Zero-Carbon Economy Using Chemistry, Electrochemistry and Catalysis provides the reader with a clear outline of some of the strategies, particularly those based on various chemical approaches,

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that have been put forward with the aim of reducing greenhouse gas emissions in order to achieve “zero carbon” by 2050. The author describes the chemistry of some of the processes involved, paying

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particular attention to those that involve heterogeneous catalytic steps and electrolysis methods. In cases in which the technology is already established, details are given of the reactor systems used. He

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discusses novel developments in the areas of transport, the production of essential products using renewable energy and the uses of sustainable biomass. Outlines international approaches to cutting or

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reducing greenhouse gas
emissions Describes current
production and uses of energy
Outlines new approaches to
energy supply and usage
Discusses the hydrogen
economy and the uses of

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renewable energy Outlines the importance of fuel-cell and electrolysis systems

Deiscusses biomass as a resource of energy and fuels

Chemistry for Sustainable Development is a collection of

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selected papers by the participants of the International Conference on Pure and Applied Chemistry (ICPAC 2010) on the theme of “ Chemistry for Sustainable Development ” held in Mauritius in July 2010. In

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light of the significant progresses and challenges in the development and implementation of green and sustainable chemistry, this volume reviews the recent results generated by a more

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efficient use of resources to minimize carbon footprints, to foster the eradication or minimisation of solvent use in chemistry, and to deliver processes which lead to increased harmony between

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chemistry and the environment. Chemistry for Sustainable Development is written for graduates, postgraduates, researchers in industry and academia who have an interest in the fields ranging from

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fundamental to applied
chemistry.

The process of photosynthesis
is a potential source of energy
and bioproducts. Renewable
sources of polymeric materials
offer an answer to maintaining

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sustainable development of economically and ecologically attractive technology. The innovations in the development of materials from biopolymers, preservation of fossil-based raw materials, complete biological

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degradability, reduction in the volume of garbage and compostability in the natural cycle, climate protection through reduction of carbon dioxide released, and the application possibilities of

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agricultural resources for the production of bio/green materials are some of the reasons why such materials are attracting public interest.

FEATURES Discusses waste from urban areas, forestry and

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agricultural processes,
specifically grown crops such as
trees, starch crops, sugar crops
hydrocarbon plants and oils, and
finally aquatic plants such as
water seaweeds and algae,
which can be used as raw

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materials for sustainable development. Presents recent advances in the development of some specifically chemical components of biomasses for a sustainable future. Focuses on lignocellulose as a source of bio-

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based products. Draws upon expertise from various countries. Describes how upgraded and integrated biomass processing may reduce the risks associated with the COVID-19 pandemic. Valentin I.

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Popa is professor emeritus of Wood Chemistry and Biotechnology at Gheorghe Asachi Technical University of Iasi, Romania.

Extensive experimentation and high failure rates are a well-

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recognised downside to the drug discovery process, with the resultant high levels of inefficiency and waste producing a negative environmental impact.
Sustainable and Green

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Approaches in Medicinal Chemistry reveals how medicinal and green chemistry can work together to directly address this issue. After providing essential context to the growth of green chemistry

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in relation to drug discovery in Part 1, the book goes on to identify a broad range of practical methods and synthesis techniques in Part 2. Part 3 reveals how medicinal chemistry techniques can be

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used to improve efficiency, mitigate failure and increase the environmental benignity of the entire drug discovery process, whilst Parts 4 and 5 discuss natural products and microwave-induced chemistry. Finally, the

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role of computers in drug discovery is explored in Part 6. Identifies novel and cost effective green medicinal chemistry approaches for improved efficiency and sustainability Reflects on

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techniques for a broad range of
compounds and materials

Highlights sustainable and green
chemistry pathways for
molecular synthesis

Sustainable Energy

From Theory to Practices

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Green Solvents

Towards a Zero-Carbon
Economy using Chemistry,
Electrochemistry and Catalysis
Principles, Tools and Industrial
Examples

Nanomaterials for Sustainable

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Energy

***Chemistry: The Key to our
Sustainable Future is a
collection of selected
contributed papers by
participants of the
International Conference on
Pure and Applied Chemistry***

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***(ICPAC 2012) on the theme of
“Chemistry: The Key for our
Future” held in Mauritius in
July 2012. In light of the
significant contribution of
chemistry to benefit of
mankind, this book is a
collection of recent results***

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generated from research in chemistry and interdisciplinary areas. It covers topics ranging from nanotechnology, natural product chemistry to analytical and environmental chemistry. Chemistry: The Key

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*to our Sustainable Future is
written for graduates,
postgraduates, researchers in
industry and academia who
have an interest in the fields
ranging from fundamental to
applied chemistry.*

Twenty First Century Science

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BL is a suite of complementary specifications offering flexible and exciting options for science at GCSE BL is unique in having been extensively trialled over three years with more than 6,000 students in each year BL is

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motivating, stimulating, and relevant The specifications and resources are the products of close collaboration between the University of York Science Education Group, the Nuffield Curriculum Centre, OCR, and

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***Oxford University Press. The
GCSE Separate Sciences
textbook contains three
modules (longer than the
modules in GCSE Science and
GCSE Additional Science): B7
Biology across the ecosystem
C7 Chemistry for a***

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sustainable world P7

Observing the Universe These modules taken as well as B1-3 and B4-6, C1-3 and C4-6, and P1-3 and P4-6, respectively, which are included in GCSE Science and GCSE Additional Science, cover the material

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***required for the separate
science qualifications GCSE
Biology, GCSE Chemistry, and
GCSE Physics. Accompanying
the textbooks is a
comprehensive range of
resources: Workbooks for the
whole of each separate***

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science course, which can be used for homework and provide the student with a set of summary notes to help with revision. Teacher and Technician Guides, with lesson plans covering the whole module, activity sheets,

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assessments, homework, and cover lessons for each of B7, C7, and P7. Included with each of the Teacher and Technician Guides is a mini iPack CD-ROM, which includes electronic versions of the lesson plans and activity

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sheets, along with a selection of video clips, animations, and PowerPoint presentations. For more information, visit: www.twentyfirstcenturyscience.org
There is a growing interest in the development of sustainable processes for the

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synthesis of pharmaceuticals and this book bridges the divide between industrial examples and the fundamental chemistry. It explains the basic principles of using transition metal catalysis with several green

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approaches for the synthesis of pharmaceuticals. The topic is an important one for green chemistry and the chapters in this book on hydroformylation, green oxidation and olefin metathesis will also be of

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interest to both medicinal and organic chemists. Written by leading experts in the field, it provides a valuable and easy tool for scientists and industrialists who require information regarding this topic.

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***Shared Lessons in
Sustainability
Platform Chemical Biorefinery
Using Transition Metal
Complexes as Catalysts
GCSE Separate Sciences
Students' Book
White Biotechnology for***

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