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Magnetic Particles
Lecture 11
Bioengineering

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Particles Lecture Notes In Bioengine ering

Beauty masks,
diapers, wound
dressings, wipes,
protective clothes

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and biomedical products: all these high-value and/or large-volume products must be highly compatible with human skin and they should have specific functional properties, such as anti-microbial, anti-inflammatory and

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anti-oxidant
Nano Processes
properties. They are
Selective
currently partially
Biosorption By
or totally produced
Magnetic Particles
using fossil-based
sources, with
lectures Notes In
evident issues
Bioengineering
linked to their end
of life, as their
waste generates an
increasing
environmental
concern. On the

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In
Biotechnology
con-
trary,
biopolymers and
active biomolecules
from biobased
sources could be
used to produce
new materials that
are highly
compatible with
the skin and also
biodegradable. The
final products can
be obtained by

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exploiting safe and
smart
Selective
nanotechnologies
Bioseparation By
such as the
Magnetic Particles
extrusion of
bionanocomposites
and electrospinning
/electrospray, as
well as innovative
surface
modification and
control
methodologies. For

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all these reasons,
recently, many
researchers, such as
those involved in
the European

POLYBIOSKIN

project activities,
have been working
in the field of
biomaterials with
anti-microbial, anti-
inflammatory and
anti-oxidant

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properties, as well
as biobased
Selective
materials which are
Bioseparation By
renewable and
Magnetic Particles
biodegradable. The
present book
Protein Noses In
gathered research
Diagnostics
and review papers
dedicated to
materials and
technologies for
high-performance
products where the

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attention paid to

Nano Processes

health and

Selective
environmental

Bioseparation By
impact is efficiently

Magnetic Particles
integrated,

Integrating
considering both

Bioengineering
the skin-

compatibility of the

selected materials

and their

source/end of life.

A comprehensive

edited volume on

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important and up-to-date nanolithography techniques and applications. The book includes an introduction on the importance of nanolithography in today's research and technology, providing examples of its applications.

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The remainder of the book is split into two sections. The first section contains the most important and established nanolithography techniques. As well as a detailed description of each technique, the reader can obtain

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useful information about the main advantages and drawbacks of each technique in terms of resolution, throughput, number of steps needed, cost, etc. At the end of this section, the reader will be able to decide which

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technique to use for
different
Selective
applications. The
Bioseparation By
second section
Magnetic Particles
explores more
specific Notes In
Applications of the
nanolithography
techniques
previously
described; as well
as new techniques
and applications. In

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some cases, the processes described in these chapters involve a combination of several nanolithography techniques. This section is less general but provides the reader with real examples. Over the past

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decade, great
strides have been
taken in developing
methodologies that
can treat more and
more complex
nano- and nano-bio
systems embedded
in complex
environments.

Multiscale
Dynamics

Simulations covers

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Biosynthesis By
Nanoparticles
Notes In
Bioengineering

methods including
DFT/MM-MD, DFTB
and semi-empirical
QM/MM-MD,
DFT/MMPOL as well
as Machine-
learning

approaches to all of
the above. Focusing
on key
methodological
breakthroughs in
the field, this book

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Upscaling Of Bio
provides
Nano Processes
newcomers with a
Selective
comprehensive
Biosynthesis By
menu of multiscale
Magnetic Particles
modelling options
so that they can
In
better chart their
Biological Engineering
course in the
nano/bio world.

This book details all
current techniques
for converting bulk
polymers into nano-

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size materials. The authors highlight various physical and chemical approaches for preparation of nano-size polymers. They describe the properties of these materials and their extensive potential commercial applications.

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Bioreactors
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Nanocellulose and
Nanohydrogels By
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from Natural
Sources Notes In
Nanomaterials
Multiscale
Dynamics
Simulations: Nano
and Nano-bio
Systems in Complex
Environments

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Biomass, Biofuels,

Nano Processes

Biochemicals

Selective
Multiscale

Bioseparation By

Magnetic Particles

Simulations

In the present

book,

nanofluid heat

and mass

transfer in

engineering

problems are

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investigated.

Nano Processes
The use of

Selective
additives in

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the base fluid

Magnetic Particles
like water or

Lecture Notes In
ethylene

Bioengineering
glycol is one
of the
techniques
applied to
augment heat
transfer.

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Bioengineering

Newly, innovative nanometer-sized particles have been dispersed in the base fluid in heat transfer fluids. The fluids containing the solid nanomet

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Lecture Notes In

Bioengineering

**er-sized
particle
dispersion are
called
"nanofluids."**

**At first,
nanofluid heat
and mass
transfer over a
stretching
sheet are
provided with**

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various

Nano Processes

boundary

Selective

conditions.

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Problems

Magnetic Particles

faced for

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simulating

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nanofluids are

reported. Also,

thermophysical

l properties of

various

nanofluids are

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**presented.
Nanofluid flow
and heat
transfer in the
presence of
magnetic field
are
investigated.
Furthermore,
applications
for electrical
and**

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internal
combustion
engine are
provided.
Sustainable
Nanocellulose**

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Upscaling Of Bio
and
Nano Processes
Selective
Nanohydrogels
from Natural
Sources
Bioseparation By
Magnetic Particles
explores the
Lecture Notes In
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use of
biopolymers in
specific
application
areas such as
electronics,
energy,

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consumer

Nano Processes

goods,

Selective

packaging

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materials,

Magnetic Particles

therapeutics,

Lecture Notes In

water

Bioengineering

treatment and

engineering,

and what

makes the

particular

polymer to

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engage it in

Nano Processes

these

Selective

applications.

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important

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reference

Bioengineering

source for

those who

would like to

learn more

about how

biopolymeric n

biopolymeric n

biopolymeric n

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anocomposites
Nano Processes
are used in
Selectivity
sustainability
Bioseparation By
and
Magnetic Particles
environmental
Lecture Notes In
protection.

Biopolymers,
including plant
and sea-based
polymers, play
an important
role in the

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***Upscaling Of Bio
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formation and
maintaining
the stability of
industrial nan
ocomposites;
their common
functions
being the
surface
modification
and protection
for the highly***

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**oxidative-
unstable
cores, as
stable base for
holding
multiple
targets, and
as a shield for
the inorganic
and highly
toxic metals.
These biopoly**

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**Upscaling Of Bio
mer-based nan
ocomposites
are being used
for
applications in
the
electronics,
automobile,
construction
and
biomedical
sectors.**

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***Explains the
major design
and
development
techniques of
novel biopoly
mer-based nan
ocomposites
Demonstrates
how
Nanocelluloses
and***

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***Nanohydrogels
are being used
for
environmental
health and
safety
Explores how
biopolymer-
infused
nanocellulose
and nanogels
are less toxic***

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**than their
conventional
counterparts**
**Upscaling of Bi
o-Nano-Proces
ses**
**Selective
Bioseparation
by Magnetic P
articles**
**Spring
er**

**This timely
volume on**

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nanomaterials

Nano Processes
and their

Selective
biomedical

Bioseparation By
and

Magnetic Particles
environmental

Lecture Notes In
applications

Bioengineering
includes the

fundamentals

of

nanoparticles,

and state-of-

the-art

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properties, characterization, and the synthesis methods as well as the applications. The main thrust of the book is to present review chapters that

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***explore all
these aspects
of
nanomaterials
for scientists,
engineers and
students who
are fairly new
to the field
and want to
have a deeper
understanding***

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***of all the
recent R & D
advances. The
12 chapters
are written by
subject matter
experts and
plot the
influence of
nanomaterials
on the
analytical***

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systems
Nano Processes
(macro to
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micro & lab-on-
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a-chip) for
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biomedical
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and
Bioengineering
environmental
applications.
Nanofabricatio
n
Reaching New
Heights

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, and

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Applications

Chemistry,

Analysis, and

Applications

Cellulose

Science and

Technology

Microbial Elect

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**rochemical
Technology:
Sustainable
Platform for
Fuels,
Chemicals and
Remediation**

Filamentous phage
(genus Inovirus)
infect almost
invariably Gram-
negative bacteria.

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They are distinguished from all other

bacteriophage not only by

morphology, but

also by the mode of their assembly,

a secretion-like process that does not kill the host.

“Classic”

Escherichia

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colifilamentous phage Ff (f1, fd and M13) are used in display technology and bio/nano/technology, whereas filamentous phage in general have been put to use by their bacterial hosts for adaptation to

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environment,

Nano Processes

pathogenesis,

Selective
biofilm formation,

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modulating

genome stability.

Many filamentous

phage have a

“symbiotic” life

style that is often

manifested by

inability to form

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plaques,
Nano Processes
preventing their
Selective
identification by
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standard phage-
Magnetic Particles
hunting
techniques; while
the absence or
very low sequence
conservation
between phage
infecting different
species often
complicates their

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identification

Nano Processes

through

Selective
bioinformatics.

Riaseparation By

Nevertheless, the
Magnetic Particles

number of
discovered Notes In

filamentous phage

is increasing

rapidly, along with

realization of their

significance.

"Temperate"

filamentous phage

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whose genomes are integrated into the bacterial chromosome of pathogenic bacteria often modulate virulence of the host. The *Vibrio cholerae* phage CTXf genome encodes cholera toxin, whereas many

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filamentous

Nano Processes

prophage

Selective influence virulence

Rip separation By without encoding

Magnetic Particles virulence factors.

The nature of their

effect on the

bacterial

pathogenicity and

overall physiology

is the next frontier

in understanding

intricate

Where To

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relationship

Nano Processes

between the

Selective
filamentous phage

and their hosts.

Magnetic Particles
Phage display has

been widely used

as a combinatorial

technology of

choice for

discovery of

therapeutic

antibodies and

peptide leads that

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Nano Processes
have been applied
in the vaccine

Selective
design,

Bioseparation By
diagnostics and

Magnetic Particles
drug development

or targeting over

Bioengineering
the past thirty

years. Virion

proteins of

filamentous phage

are integral

membrane

proteins prior to

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assembly; hence they are ideal for display of bacterial surface and secreted proteins.

The use of this technology at the scale of microbial community has potential to identify host-interacting proteins of

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Selective
community
Bioseparation By
Magnetic Particles
Filamentous phage
Bioengineering
extend into protein
evolution,
synthetic biology
and
nanotechnology.
In many
applications,

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phage serves as a
monodisperse

long-aspect nano-
scaffold of well-
defined shape.

Chemical or
genetic

modifications of
this scaffold are
used to introduce
the necessary
functionalities,
such as

Where To Download

fluorescent labels,
ligands that target
specific proteins,
or peptides that
promote formation
of inorganic or
organic
nanostructures.

We anticipate that
the future holds
development of
new strategies for
particle assembly,

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In
Strategies. These
improvements will
render the
production of filam-
entous-phage-
templated
materials safe and

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affordable,
Nano Processes
allowing their
Selective
applications
Bioseparation By
outside of the
Magnetic Particles
laboratory.

Biomass, Biofuels,
Biochemicals

encompasses the
Bioengineering
potential of
microbial
electrochemical
technologies,
delineating their

Where To Download

role in developing
a technology for
abating
environmental
crisis and enabling
transformation to a
sustainable future.
The book provides
new and futuristic
methods for
bioelectrogenesis,
multiple product
synthesis, waste

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remediation

Nano Processes
strategies, and ele

Selective
ctromicrobiology

Biosorption By
generation which

Magnetic Particles
are widely

essential to
Notes In

Biotechnology
individuals from

industry,

marketing,

activists, writers,

etc. In addition, it

provides essential

knowledge

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transfer to
Nano Processes
researchers,
Selective
students and
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science
Magnetic Particles
enthusiasts on
Microbial Notes In
Electrochemical
Technologies,
detailing the
functional
mechanisms
employed, various
operational

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configurations,
influencing factors
governing the
reaction progress
and integration
strategies. With
these key topics
and features, the
book generates
interest among a
wide range of
people related to
renewable energy

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generation and sustainable environmental research. Depicts the holistic view of the multiple applications of Microbial Electrochemical Technologies (METs) in a unified comprehensible manner Provides

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strategic
Nano Processes
integrations of
Selective
MET with various
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bioprocesses that
Magnetic Particles
are essential in
Establishing In
circular biorefinery
Widens the scope
of the existing
technologies,
giving up-to date,
state-of-the-art
information and

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knowledge on
Nano Processes

research and
Selective
commercialization

Contains topics

that are lucid,
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providing
Magnetic Particles

interdisciplinary
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knowledge on the

environment,

molecular biology,

engineering,

biotechnology,

microbiology and

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economic aspects

Includes more

than 75

illustrations,

figures, diagrams,

flow charts, and

tables for further

study

The book gives a

unique overview of

this rapidly

developing

research field,

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presenting
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structures and
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properties of flavin
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derivatives as well
Magnetic Particles
as their proven
application as
Bio-Inspired
bioinspired
Engineering
catalysts in
various
organocatalytic,
biocatalytic, and
photocatalytic
reactions.

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This book bridges
three different
fields:

nanoscience,
bioscience, and
environmental
sciences. It starts
with fundamental
electrostatics at
interfaces and
includes a detailed
description of
fundamental

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In

Bioengineering

double layer

interaction

between charged

particles. The

stated

fundamentals are

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Bioremediation By
Magnetic Particles
Electrokinetic In
Pulsed Fields In
provided as the
underpinnings of
sections two,
three, and four,
which address
electrokinetic
phenomena that
occur in
nanoscience,
bioscience, and
environmental
science.

Applications in

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and humic
substances are
discussed.
The Fourth
Industrial
Revolution

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mediated
Environmental
Management

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Sustainable
Agriculture,
Biosynthesis By
Environment and
Magnetic Particles
Nano-technology
Flavin-Based
Catalysis
Reviews recent
advances in catalytic
biodiesel synthesis,
highlighting various

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nanocatalysts and
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nano(bio)catalysts
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developed for
Bioreseparation By
effective biodiesel
Magnetic Particles
production Nano-
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and Biocatalysts for
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Biodiesel Production
delivers an essential
reference for
academic and
industrial
researchers in

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biomass valorization
and biofuel

industries. The book
covers both

nanocatalysts and
biocatalysts,

bridging the gap
between

homogenous and
heterogenous

catalysis. Readers
will learn about the

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techno-economical
and environmental
aspects of biodiesel
production using
different feedstocks
and catalysts. They
will also discover
how
nano(bio)catalysts
can be used as
effective alternatives
to conventional

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catalysts in biodiesel production due to their unique properties, including reusability, high activation energy and rate of reaction, easy recovery, and recyclability.

Readers will benefit from the inclusion of: Introductions to

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CaO nanocatalysts,
zeolite
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nanocatalysts,
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titanium dioxide-
Magnetic Particles
based nanocatalysts
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and zinc-based in
Bioengineering
biodiesel production

An exploration of
carbon-based
heterogeneous
nanocatalysts for the
production of

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discussions of bio-

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based nano catalysts

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for biodiesel

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production and the

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application of

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nanoporous

materials as

heterogeneous

catalysts for

biodiesel production

An analysis of the

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considerations of
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biodiesel production
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using different
Magnetic Particles
feedstocks Nano-
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and Biocatalysts for
Bioengineering
Biodiesel Production
focuses on recent
advances in the field
and offers a
complete and
informative guide

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for academic
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researchers and
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industrial scientists
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working in the fields
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of biofuels and
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bioenergy, catalysis,
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biotechnology,
bioengineering,
nanotechnology, and
materials science.
With the increasing
demand for

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optimization of

Nano Processes

energy storage,

Selective

maintenance of the

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environment, and

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effective production,

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control on

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nanostructures of

catalysts and

optimization of their

organization have

become key to

achieving high

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efficiency and
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specificity in energy
Selective
and material
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conversion systems.

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This book
emphasizes and
summarizes the

novel design of soft
matters (molecules,
polymers, assembled
motifs, etc.) for
nanocatalysts and

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nanocatalyst

Nano Processes

supports. The

Selective

diversity or specialty

Bioseparation By

of soft matters offers

Magnetic Particles

a new perspective

Lecture Notes In

and great promise

Bioengineering

for the development

of new nanocatalytic

systems for future

requirements. Soft

matters can provide

a simple and well-

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defined space for the
discovery of new
catalysts. This book
covers nonmetallic
organocatalysts,
organometallic
compounds,
dendrimers, ionic
liquids, enzymes,
polymers, various
organized
nanoarchitectures for

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Supporting catalysts,
and molecular
Selective
dynamics in catalytic
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surface reactions. It
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gives readers a
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complete picture of
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the catalysis systems
based on soft matters
and is a useful
reference for
advanced
undergraduate- and

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graduate-level

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students and

Selective

researchers in

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chemistry, biology,

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materials science,

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nanoscience,

Bioengineering

polymer science, and

catalysis.

Fungi Bio-prospects

in Sustainable

Agriculture,

Environment and

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explores varied
aspects of fungal
biology and their
relevance in
microbiology and
agriculture, thus

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allowing for better
insights on basic and
advanced
biotechnological
application in human
welfare and
sustainable

agriculture. Chapters
throw light on
different sectors of
fungi, including
fungi in extreme

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circumstances,

Nano Processes

bioremediation,

Selective

complex and toxic

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effluents, and

Magnetic Particles

mycoremediation.

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The book was

Bioengineering

designed to explore

the possibility of

huge fungal diversity

for present and

future generation in

different sectors of

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human life. Volume

Two focuses on

extremophilic fungi

and myco-mediated

environmental

management.

Summarizes various

aspects of fungi in

the field of

microbiology,

sustainable

agriculture, nano-

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technology and

Nano Processes

environment

Selective

Describes the

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molecular

Magnetic Particles

approaches and gene

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expression of fungi

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nanoscale. It is a promising novel research area that has received a lot of interest in recent years. This book includes interesting reports on cutting-edge science and technology related to synthesis, morphology, control, self-assembly and prospective

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application of nanofibers. I hope that the book will lead to systematization of nanofiber science, creation of new nanofiber research field and further promotion of nanofiber technology. This potentially unique work offers various approaches on the implementation

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of nanofibers. As it is widely known, nanotechnology presents the control of matter at the nanoscale and nano-dimensions within few nanometers, whereas this exclusive phenomenon enables us to regulate and control novel applications with nanofibers. This book

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has led to earth's soil

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resources becoming

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hazardous materials.
Bioremediation
delivers a green
technology using
dynamics of living
organisms, typically
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plants to eliminate
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ecosystem. This
biological know-how
is not only cost-
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conventional physico-chemical approaches, but also very

successful and is being employed in the field. This book focuses on important issues for several

critical and common environmental pollutants, resulting in a compilation having recent updates on the bioremediation

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applications towards
green and clean
environment. This
volume also describes
updates on various
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bioremediation. This volume is a resource for researchers, environmentalists, professionals and policy makers.

We are proposing this comprehensive volume aimed at bridging and bonding of the theory and practical experiences for the elimination of a broad range of

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pollutants from various types of water and soil utilizing innovative nanotechnologies, biotechnologies and their possible combinations.

Nowadays, a broad range of contaminants are emerging from the industry (and also representing old ecological burdens).

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Accidents and improper wastewater treatment requires a fast, efficient and cost-effective approach. Therefore, several innovative technologies of water and soil treatments have been invented and suggested in a number of published papers. Out of these, some

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nanotechnologies and biotechnologies (and possibly also their mutual combinations) turned out to be promising for practical utilization – i.e., based on both extensive laboratory testing and pilot-scale verification. With respect to the diverse character of targeted pollutants, the key technologies

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covered in this book will include oxidation, reduction, sorption and/or biological degradation. In relation to innovative technologies and new emerging pollutants mentioned in this proposed book, an important part will also cover the ecotoxicity of selected pollutants and novel

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nanomaterials used for remediation. Thus, this work will consist of 8 sections/chapters with a technical appendix as an important part of the book, where some technical details and standardized protocols will be clearly presented for their possible implementation at

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different contaminated sites. Although many previously published papers and books (or book chapters) are devoted to some aspects of nano-/biotechnologies , here we will bring a first complete and comprehensive treatise on the latest progress in innovative technologies with a

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clear demonstration of the applicability of particular methods based on results of the authors from pilot tests (i.e., based on the data collected within several applied projects, mainly national project “Environmentally friendly nanotechnologies and biotechnologies in

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water and soil
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This multidisciplinary

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book will be suitable
for a broad audience
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advancement in
technology,
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require high-
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into next-
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materials,
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s, top author
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how newer
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properties are
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fabricate the

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energy devices
to meet the
future demand
for flexible
electronics.

Additional
features
include:

Addressing the
materials,
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and challenges

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