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Essentials of Computational Chemistry provides a balanced introduction to this dynamic subject. Suitable for both experimentalists and theorists, a wide

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range of samples and applications are included drawn from all key areas. The book carefully leads the reader thorough the necessary equations providing information explanations and reasoning where necessary and firmly placing each equation in context. A decade ago, the U.S. chemical

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industry was in decline. Of the more than 40 chemical manufacturing plants being built worldwide in the mid-2000s with more than \$1 billion in capitalization, none were under construction in the United States. Today, as a result of abundant domestic supplies of affordable natural gas and

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natural gas liquids resulting from the dramatic rise in shale gas production, the U.S. chemical industry has gone from the world's highest-cost producer in 2005 to among the lowest-cost producers today. The low cost and increased supply of natural gas and natural gas liquids provides an

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opportunity to discover and develop new catalysts and processes to enable the direct conversion of natural gas and natural gas liquids into value-added chemicals with a lower carbon footprint. The economic implications of developing advanced technologies to utilize and process natural gas and

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natural gas liquids for chemical production could be significant, as commodity, intermediate, and fine chemicals represent a higher-economic-value use of shale gas compared with its use as a fuel. To better understand the opportunities for catalysis research in an era of shifting feedstocks for

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chemical production and to identify the gaps in the current research portfolio, the National Academies of Sciences, Engineering, and Medicine conducted an interactive, multidisciplinary workshop in March 2016. The goal of this workshop was to identify advances in catalysis that can enable the United

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States to fully realize the potential of the shale gas revolution for the U.S. chemical industry and, as a result, to help target the efforts of U.S. researchers and funding agencies on those areas of science and technology development that are most critical to achieving these advances. This



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publication summarizes the presentations and discussions from the workshop.

One of the most important issues, when a nanomaterial is designed, is to control the synthetic pathways to ensure the final desired product. A combination of dry and wet procedures, as well as

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chemical and physical methodologies, it is possible to successfully prepare new multifunctional nanomaterials, often as a result of multidisciplinary cooperation between chemists, physics, biologist, physicians, material engineers, etc. Drug delivery, environmental detection of contaminants, and many industrial

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applications directly rely on properties such as water solubility, permeability, cell penetration, shape control, and size of the monodispersed nanoparticle, among others. Functionalized nanomaterials play a crucial role in modern research areas because of their unique physical and chemical

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properties, explored in many different fields including medicine and biology, new materials, pharmacology as drug delivery systems, and in environmental analysis for sensing new contaminants, among other technical and industrial applications. For future technological applications, the rational design of these

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multifunctional nanomaterials is critical, and often depends on the excellent control of the organic and inorganic chemical reactions involved during production. The success of their applications relies directly on the photophysical properties created in the final material, including the emission of

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light or colorimetric responses, water solubility, selectivity, sensitivity, stability, etc. For example, from an analytical point of view, the detection and quantification of emerging analytes is directly dependent on the selectivity and sensitivity showed by the material in a complex media.

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Physical Science introduces students to non-living systems and teaches them how things move. There are chapters on chemicals and materials, and on forces, energy, and different kinds of waves. Diagrams, sidebars, and fact boxes provide important details. All of this knowledge is enhanced with an easy-to-

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understand question and answer  
format.

Past, Present and Perspectives

The Molecular Nature of Matter

Phenolic Polymers Based Composite  
Materials

The Alchemy of Us

Carbon Nanotubes



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Sustainable Green Chemistry  
***Bioconjugate Techniques,  
3rd Edition, is the  
essential guide to the  
modification and cross  
linking of biomolecules  
for use in research,***

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***diagnostics, and  
therapeutics. It  
provides highly detailed  
information on the  
chemistry, reagent  
systems, and practical  
applications for***

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***creating labeled or  
conjugate molecules. It  
also describes dozens of  
reactions, with details  
on hundreds of  
commercially available  
reagents and the use of***

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***these reagents for  
modifying or  
crosslinking peptides  
and proteins, sugars and  
polysaccharides, nucleic  
acids and  
oligonucleotides,***

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***lipids, and synthetic  
polymers. Offers a one-  
stop source for proven  
methods and protocols  
for synthesizing  
bioconjugates in the lab  
Provides step-by-step***

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***presentation makes the  
book an ideal source for  
researchers who are less  
familiar with the  
synthesis of  
bioconjugates Features  
full color illustrations***

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***Includes a more  
extensive introduction  
into the vast field of  
bioconjugation and one  
of the most thorough  
overviews of  
immobilization chemistry***

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*ever presented  
Chemistry can be a very  
difficult topic for  
students to understand,  
in part because it  
requires students to  
think abstractly about*



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***the behaviors and interactions of atoms, molecules, and ions. Visualizations in chemistry can help to make chemistry at the particulate level less***

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***abstract because  
students can actually  
"see" these particles,  
and dynamic  
visualizations can help  
students understand how  
these particles interact***

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***and change over time as a reaction occurs. The chapters in this book are divided into four categories: Theoretical aspects of visualization design, design and***

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***evaluation of  
visualizations,  
visualizations studied  
by chemical education  
researchers, and  
visualizations designed  
for the chemistry***

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***classroom. Chapters 2-4 of this book focus on theoretical issues and concerns in developing and using animations and simulations to teach chemistry concepts. The***

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***theoretical frameworks  
described in these  
chapters not only  
include learning  
theories [such as  
Behaviorism, Cognitive  
Load Theory, and***

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***Vygotsky's Zone of Proximal Development], but also describe design principles that are informed by educational research on learning with multimedia. Both of***

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***these frameworks can be used to improve the way dynamic visualizations are designed, created, and utilized in the chemistry classroom. Chapters 5-8 of this***



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*book provide two  
examples of paired  
articles, in which the  
first chapter introduces  
and describes how the  
dynamic visuals were  
designed and created for*

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*use in chemistry  
instruction and the  
second chapter describes  
a chemical education  
research study performed  
to evaluate the  
effectiveness of using*

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*these dynamic visuals  
for chemistry  
instruction. Chapters 5  
and 6 focus on  
interactive simulations  
created as part of the  
PhET Interactive*

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***Simulations Project.  
Chapters 7 and 8 focus  
on the virtual-world  
program Second Life and  
how it is being used to  
teach chemistry lessons.  
Chapters 9-14 of this***

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***book describe the  
results of chemical  
education research  
studies on the use of  
animations and  
simulations. Chapters  
15-17 describe how***

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*specific dynamic  
visualization programs  
and modules were  
designed and how they  
should be utilized in  
the chemistry classroom  
to improve student*

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***Learning.***

***The handbook provides an understanding of consolidated processing and biorefinery systems for the production of bio-based chemicals and***

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***value-added bioproducts  
from renewable sources.  
The chapters look at a  
variety of bioenergy  
technological advances  
and improvements in the  
energy and materials***



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***sectors that aim to  
lower our dependence of  
fossil fuels and  
consequently reduce  
greenhouse gas (GHG)  
emissions. The volume  
looks at a selection of***

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***processes for the  
production of energy and  
biomaterials, including  
the Fischer–Tropsch  
process, gasification,  
pyrolysis, combustion,  
fermentation from***

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***renewable sources (such as, plants, animals and their byproducts), and others. Applications that are explored include transportation fuels, biodiesel***

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***production, wastewater  
treatment, edible  
packaging, bioplastics,  
physical rehabilitation,  
tissue engineering,  
biomedical applications,  
thermal insulation,***

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***industrial value  
compounds, and more. All  
of the topics covered in  
this publication address  
consolidated processes  
that play a pivotal role  
in the production of***

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***bioenergy and biomaterials because these processes require fewer unitary operations needed in the process, leading to a more direct method of production.***

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***This type of production system contributes to decreasing negative effects on the environment, lowering costs, saving energy and time, and improving***

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***profitability and efficiency. This volume will be valuable for the industrial sector, for researchers and scientists, as well as for faculty and advanced***



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***students.***

***In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has***

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***dramatically changed the  
scientific, technical,  
and medical (STM)  
publication world. This  
dynamic mode of  
dissemination is  
enabling scientists,***

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***environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of***

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***The ACS Style Guide  
thoroughly examines  
electronic tools now  
available to assist STM  
writers in preparing  
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the changing  
environment, this  
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references to many*

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insight on ethics in  
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communication, the  
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Redefining the World of  
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Pedagogic Roles of  
Animations and  
Simulations in Chemistry***

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## ***Courses***

### ***ACS General Chemistry Study Guide***

The book explains the principles and fundamentals of Green Analytical Chemistry

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(GAC) and highlights the current developments and future potential of the analytical green chemistry-oriented applications of various solutions. The book

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consists of sixteen chapters, including the history and milestones of GAC; issues related to teaching of green analytical chemistry and greening the university

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laboratories; evaluation  
of impact of analytical  
activities on the  
environmental and human  
health, direct  
techniques of detection,  
identification and



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determination of trace  
constituents; new  
achievements in the  
field of extraction of  
trace analytes from  
samples characterized by  
complex composition of

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the matrix; “green”  
nature of the  
derivatization process  
in analytical chemistry;  
passive techniques of  
sampling of analytes;  
green sorption materials

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used in analytical procedures; new types of solvents in the field of analytical chemistry. In addition green chromatography and related techniques, fast

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tests for assessment of  
the wide spectrum of  
pollutants in the  
different types of the  
medium, remote  
monitoring of  
environmental

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pollutants, qualitative and comparative evaluation, quantitative assessment, and future trends and perspectives are discussed. This book appeals to a wide

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readership of the  
academic and industrial  
researchers. In  
addition, it can be used  
in the classroom for  
undergraduate and  
graduate Ph.D. students

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focusing on elaboration  
of new analytical  
procedures for organic  
and inorganic compounds  
determination in  
different kinds of  
samples characterized by

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complex matrices  
composition. Jacek  
Namie?nik was a  
Professor at the  
Department of Analytical  
Chemistry, Gda?sk  
University of



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Technology, Poland.  
Justyna P?otka-Wasy?ka  
is a teacher and  
researcher at the same  
department.

Preparing for Your ACS  
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Explanations] Test Prep  
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**This book contains  
recent research on  
phenolic resin and its**

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composite materials. The book covers all types of wood composites, natural fibres and synthetic fibres reinforced composites. It discusses various properties of

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phenolic composites and presents comparative study with other polymer composites for prospective applications. The chapters in the book

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present an up-to-date  
information on the  
subject area of polymer  
and composite-based  
information by prominent  
researchers in academia  
and industry as well as

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government/private  
research laboratories  
across the world. The  
book serves as a  
holistic reference  
source for university  
and college faculties,

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professionals,  
postdoctoral research  
fellows,  
undergraduate/graduate  
students, and research  
and science officers  
working in the area of



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polymer science, non-forest products utilization, natural fibres and biomass materials.

Sugar chains (glycans) are often attached to

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proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their

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**biogenesis and function  
and offers a useful  
gateway to the  
understanding of  
glycans.**

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Bioenergy and**

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Consolidated and Green  
Processes  
Preparing for Your ACS  
Examination in General  
Chemistry  
Physical Science**

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Implications for  
Catalysis: Proceedings  
of a Workshop  
Third Chemical Congress  
of North America,  
Toronto, Canada, June  
5-10, 1988

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This best-selling volume presents the principles and applications of physical chemistry as they are used to solve problems in biology and medicine. The First Law;

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the Second Law; free energy and chemical equilibria; free energy and physical Equilibria; molecular motion and transport properties; kinetics: rates of

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chemical reactions;  
enzyme kinetics; the  
theory and spectroscopy  
of molecular structures  
and interactions:  
molecular distributions  
and statistical



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thermodynamics; and  
macromolecular structure  
and X-ray diffraction.

For anyone interested in  
physical chemistry as it  
relates to problems in  
biology and medicine.

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This book focuses on developing and updating prospective and practicing chemistry teachers' pedagogical content knowledge. The 11 chapters of the book

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discuss the most essential theories from general and science education, and in the second part of each of the chapters apply the theory to examples from

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the chemistry classroom. Key sentences, tasks for self-assessment, and suggestions for further reading are also included. The book is focused on many

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different issues a  
teacher of chemistry is  
concerned with. The  
chapters provide  
contemporary discussions  
of the chemistry  
curriculum, objectives

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and assessment,  
motivation, learning  
difficulties, linguistic  
issues, practical work,  
student active  
pedagogies, ICT,  
informal learning,

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continuous professional development, and teaching chemistry in developing environments. This book, with contributions from many of the world's top

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experts in chemistry education, is a major publication offering something that has not previously been available. Within this single volume, chemistry



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teachers, teacher  
educators, and  
prospective teachers  
will find information  
and advice relating to  
key issues in teaching  
(such as the curriculum,

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assessment and so forth), but contextualised in terms of the specifics of teaching and learning of chemistry, and drawing upon the extensive

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research in the field.  
Moreover, the book is  
written in a scholarly  
style with extensive  
citations to the  
literature, thus  
providing an excellent

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starting point for  
teachers and research  
students undertaking  
scholarly studies in  
chemistry education;  
whilst, at the same  
time, offering insight

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and practical advice to support the planning of effective chemistry teaching. This book should be considered essential reading for those preparing for

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chemistry teaching, and will be an important addition to the libraries of all concerned with chemical education. Dr Keith S. Taber (University of

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The highly regarded  
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providing an essential resource for teachers of chemistry to enhance pedagogical content knowledge for teaching modern chemistry.

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orchestration of  
examples and theory, and  
with carefully framed  
guiding questions, the  
book equips teachers to  
act on the relevance of  
essential chemistry

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knowledge to navigate  
such challenges as  
context, motivation to  
learn, thinking,  
activity, language,  
assessment, and  
maintaining professional

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Hannah Sevian

(University of

Massachusetts Boston)

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authors deliver a practical and essential introduction to general chemistry. Thoroughly revised, with particular attention paid to the optimization of the text

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and included LearnSmart questions, the book focuses throughout on keeping the material accessible and succinct. The production of textile materials

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comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products. As the great

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majority of such products are coloured, predominantly using aqueous dyeing processes, the coloration of textiles is a large-scale global



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business in which complex procedures are used to apply different types of dye to the various types of textile material. The development of such

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dyeing processes is the result of substantial research activity, undertaken over many decades, into the physico-chemical aspects of dye adsorption and

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the establishment of 'dyeing theory', which seeks to describe the mechanism by which dyes interact with textile fibres. Physico-Chemical Aspects of Textile

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Coloration provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural, man-made and synthetic

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fibres with the  
principal types of dye.

The book covers:

fundamental aspects of  
the physical and  
chemical structure of  
both fibres and dyes,

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together with the structure and properties of water, in relation to dyeing; dyeing as an area of study as well as the terminology employed in dyeing technology and

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science; contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level;

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fundamental principles  
involved in dyeing  
theory, as represented  
by the thermodynamics  
and kinetics of dye  
sorption; detailed  
accounts of the



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mechanism of dyeing that applies to cotton (and other cellulosic fibres), polyester, polyamide, wool, polyacrylonitrile and silk fibres; non-aqueous

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dyeing, as represented by the use of air, organic solvents and supercritical CO<sub>2</sub> fluid as alternatives to water as application medium. The up-to-date text is

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supported by a large number of tables, figures and illustrations as well as footnotes and widespread use of references to published work. The book

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is essential reading for students, teachers, researchers and professionals involved in textile coloration.

Emerging Technologies  
for STEAM Education

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The Practice of  
Medicinal Chemistry  
Physico-chemical Aspects  
of Textile Coloration  
Theories and Models  
Essentials of  
Computational Chemistry

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## Frontiers in Chemistry: Rising Stars

*This book provides an authoritative source of information on the use of nanomaterials to enhance the performance of existing*

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*electrochemical energy storage systems and the manners in which new such systems are being made possible. The book covers the state of the art of the design, preparation, and engineering of nanoscale*

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*functional materials as effective catalysts and as electrodes for electrochemical energy storage and mechanistic investigation of electrode reactions. It also provides perspectives and challenges*



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*for future research. A related book by the same editors is: Nanomaterials for Fuel Cell Catalysis. The Practice of Medicinal Chemistry, Fourth Edition provides a practical and comprehensive overview of*

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*the daily issues facing pharmaceutical researchers and chemists. In addition to its thorough treatment of basic medicinal chemistry principles, this updated edition has been revised to provide new and expanded*

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*coverage of the latest technologies and approaches in drug discovery. With topics like high content screening, scoring, docking, binding free energy calculations, polypharmacology, QSAR,*

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*chemical collections and  
databases, and much more,  
this book is the go-to  
reference for all academic  
and pharmaceutical  
researchers who need a  
complete understanding of  
medicinal chemistry and its*

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*application to drug  
discovery and development.  
Includes updated and  
expanded material on systems  
biology, chemogenomics,  
computer-aided drug design,  
and other important recent  
advances in the field*

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*Incorporates extensive color figures, case studies, and practical examples to help users gain a further understanding of key concepts Provides high-quality content in a comprehensive manner,*

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*including contributions from  
international chapter  
authors to illustrate the  
global nature of medicinal  
chemistry and drug  
development research An  
image bank is available for  
instructors at*

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*www.textbooks.elsevier.com*

*This book describes the fundamental concepts, the latest developments and the outlook of the field of nanozymes (i.e., the catalytic nanomaterials with enzymatic characteristics).*

*Page 136/242*



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*As one of today's most exciting fields, nanozyme research lies at the interface of chemistry, biology, materials science and nanotechnology. Each of the book's six chapters explores advances in*

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*nanozymes. Following an introduction to the rise of nanozymes research in the course of research on natural enzymes and artificial enzymes in Chapter 1, Chapters 2 through 5 discuss different*

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*nanomaterials used to mimic various natural enzymes, from carbon-based and metal-based nanomaterials to metal oxide-based nanomaterials and other nanomaterials. In each of these chapters, the nanomaterials' enzyme*

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*mimetic activities, catalytic mechanisms and key applications are covered. In closing, Chapter 6 addresses the current challenges and outlines further directions for nanozymes. Presenting extensive information on*

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*nanozymes and supplemented  
with a wealth of color  
illustrations and tables,  
the book offers an ideal  
guide for readers from  
disparate areas, including  
analytical chemistry,  
materials science,*

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*nanoscience and nanotechnology, biomedical and clinical engineering, environmental science and engineering, green chemistry, and novel catalysis.*

*The Frontiers in Chemistry*

*Page 142/242*

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the diversity of research  
performed across the entire  
breadth of the chemical  
sciences, and presents*

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with applications to  
compelling problems. This  
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each paper published within  
this important collection,*

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*ordered by section  
alphabetically, highlighting  
them as the great  
researchers of the future.  
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Editorial Office team would  
like to thank each  
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faculty from all disciplines and at all levels of experience can use these characteristics to evaluate, guide, and improve their teaching. Evidence based research supports the inclusion of each characteristic, each of

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evidence. Two introductory chapters outline the model teaching characteristics followed by six chapters, each devoted to one of the characteristics: training, instructional methods, course

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content, assessment, syllabus construction, and student evaluations. The book:

- Features in each chapter self-evaluation surveys that help readers identify gaps between the model characteristics and

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was largely  
incomprehensible, fact-rich  
but understanding-poor,  
smelly, and so far removed  
from the real world of  
events and pleasures that  
there seemed little point,  
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*book aims to summarize the progress in synthesis, processing, characterization and applications of a special group of nanocarbon materials derived from graphene or graphene related derivatives by using various strategies in different forms. More*

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*specifically, three forms of macrosized materials are presented, i.e., one-dimension or 1D (fibers, wires, yarns, strands, etc.), two-dimension or 2D (films, membranes, papers, sheets, etc.) and three-dimension or 3D (bulk, hydrogels, aerogels, foams, sponges,*

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*etc.). Seven chapters are included with the first chapter serving to introduce the concept, definition, and nomenclature of graphene, graphene oxide and their derivatives. The main topics are covered in Chapters 2-7. Although they have coherent*

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*connections, each chapter of them is designed such that they can be studied independently. The target readers of this book include undergraduate students, postgraduate students, researchers, designers, engineers, professors, and program/project*

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