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BRYCEN CAREY

A-Level Chemistry for AQA: Year 1 & 2 Student Book John Wiley & Sons
"Compatible with standard taper miniscale, 14/10 standard taper microscale, Williamson microscale. Supports guided inquiry"--Cover.
Green Chemistry and Chemical Engineering John Wiley & Sons
Covers the content of the AQA Additional Science GCSE specification.
Green Organic Chemistry in Lecture and Laboratory Hodder Gibson
The field of environmental chemistry has evolved significantly since the publication of the first edition of Environmental Chemistry. Throughout the book's long life, it has chronicled emerging issues such as organochloride pesticides, detergent phosphates, stratospheric ozone depletion, the banning of chlorofluorocarbons, and greenhouse warming. D
Chemical Processes for Pollution Prevention and Control CGP Ltd
Practise and prepare for AQA GCSE Chemistry with hundreds of topic-based questions and one complete set of exam practice papers designed to strengthen knowledge and prepare students for the exams. This extensive practice book raises students' performance by providing 'shed loads of practice', following the 'SLOP' learning approach that's recommended by teachers. - Consolidate knowledge and understanding with practice questions for every topic and type of question, including multiple-choice, multi-step calculations and extended response questions.

- Develop the mathematical, literacy and practical skills required for the exams; each question indicates in the margin which skills are being tested. - Confidently approach the exam having completed one set of exam-style practice papers that replicate the types, wording and structure of the questions students will face. - Identify topics and skills for revision, using the page references in the margin to refer back to the specification and accompanying Hodder Education Student Books for remediation. - Easily check answers with fully worked solutions and mark schemes provided in the book.

Microwave-Mediated Biofuel Production Houghton Mifflin Harcourt Developed in cooperation with the International Baccalaureate® Trust experienced and best-selling authors to navigate the new syllabuses confidently with these coursebooks that implement inquiry-based and conceptually-focused teaching and learning. - Ensure a continuum approach to concept-based learning through active student inquiry; our authors are not only IB Diploma experienced teachers but are also experienced in teaching the IB MYP and have collaborated on our popular MYP by Concept series. - Build the skills and techniques covered in the Tools (Experimental techniques, Technology and Mathematics) with direct links to the relevant parts of the syllabus; these skills also provide the foundation for practical work and internal assessment. - Integrate Theory of Knowledge into your lessons with TOK boxes and Inquiries that provide real-world examples, case studies and questions. The TOK links are written by the author of our bestselling TOK coursebook, John Sprague and Paul Morris, our MYP by Concept series and Physics co-author. - Develop approaches to learning with ATL skills identified and developed with a range of engaging activities with real-world applications. - Explore ethical debates and how scientists work in the 21st century with Nature of Science boxes throughout. - Help build international mindedness by exploring how the exchange of information and ideas across national boundaries has been essential to the progress of science and illustrates the international aspects of science. - Consolidate skills and improve exam performance with short and simple knowledge-checking questions, exam-style questions, and hints to help avoid common mistakes.

Laboratory Safety for Chemistry Students CRC Press This revision guide provides in-depth coverage of all the externally assessed course content for GCSE AQA Chemistry. This book can be used to support study throughout the course and as a revision aid in the build up to exams. * In-depth coverage provides everything required for thorough exam preparation * Detailed explanations and diagrams help consolidate and build on knowledge throughout the course * Clear design and direct references to the specification provide structured revision and maximum assurance. This revision guide provides in-depth coverage of all the externally assessed course content for GCSE AQA Chemistry. This book can be used to support study throughout the course and as a revision aid in the build up to exams. * In-depth coverage provides everything required for thorough exam preparation * Detailed explanations and diagrams help consolidate and build on knowledge throughout the course * Clear design and direct references to the specification provide structured revision and maximum assurance.

Gcse Success Rev Gd Aqa Chem Hodder Gibson

Renewable Bioresources: scope and modification for non-food applications is the first text to consider the broad concept of renewable materials from the socio-economic aspects through to the chemical production and technical aspects of treating different raw products. The text sets the context of the renewables debate with key opening chapters on green chemistry, and the current situation of US and EU policy regarding sustainability and industrial waste. The quantitative and technical scope and production of renewable resources is then discussed with material looking at integral valorisation, the primary production of raw materials, downstream processing, and the identification of renewable crop materials. The latter part of the book concludes with a discussion on the uses for renewable materials such as carbohydrates, woods, fibres, biopolymers, lipids and proteins in different industrial applications, including a key chapter on the high value-added industries. Covers the broad concept of renewable resources from different points of view. Takes readers through the identification, production, processing and end-applications for renewable raw materials. Considers and compares EU and US renewable resources and sustainability objectives. Devotes one chapter to green chemistry and sustainability, focussing on the green industrial processes. This is an essential book for upper level undergraduates and Masters students taking modules on Renewable Resources, Green Chemistry, Sustainable Development, Environmental Science, Agricultural Science and Environmental Technology. It will also benefit industry professionals and product developers who are looking at improved economic and environmental means of utilising renewable materials.

Higher Chemistry, Second Edition Springer
Exam Board: SQA Level: Higher Subject: Chemistry First Teaching: August 2018 First Exam: June 2019 Full course coverage in this new Higher Chemistry textbook, updated for the latest changes to the SQA coursework and question papers. - In-text, Study and End-of-course questions have been updated and extended in this edition, testing students' knowledge and understanding of the chemistry presented and offering lots of practice to revise and consolidate ahead of the exam. - Worked examples show common Higher Chemistry questions and ways of answering that cover the necessary points - Checklists for Revision provide short summaries of the key learning points at the end of each chapter so that students can this to self-check their learning which helps them revise for assessments - Brand new section 'Additional features of the Higher Chemistry exam' offers advice on how to tackle two important new features of the exam: Numeracy and Open-ended questions - Key terms and Chemical Dictionary aid understanding and allow students to check their knowledge of the key terms
Higher Chemistry: Revision Notes and Questions Letts and Lonsdale
With escalating concerns over the current state of our planet, the realization to work toward reducing our environmental footprint is gaining momentum. Scientists have realized that green chemistry is the key to reduce waste, rendering healthy environment, and improving human health. The 12 principles of green chemistry are the basic tenets that require understanding at the most fundamental level and implementation to promoting sustainable synthesis. This book discusses innovations in the form of greener

technologies (superior green catalysts, alternate reaction media, and green energy sources) and elaborates their tremendous potential in combating the critical global challenges on the horizon. It intends to empower and educate students to grasp the key concepts of green chemistry, think out of the box and come up with new ideas, and apply the basic concepts in greening the world. It extensively covers the goals of the United Nation's 2030 Agenda of Sustainable Development, which can be successfully achieved with the aid of green chemistry. It also highlights cutting-edge greener technologies such as biomimicry, miniaturization, and continuous flow. Edited by two active green chemists, the book presents in-depth knowledge of this field and is extremely helpful for undergraduate, graduate, and postgraduate readers, as well as academic and industrial researchers.

Process Intensification Technologies for Green Chemistry Letts and Lonsdale

Ebook: Chemistry: The Molecular Nature of Matter and Change

Sustainable Organic Synthesis Elsevier

The successful implementation of greener chemical processesrelies not only on the development of more efficient catalysts forsynthetic chemistry but also, and as importantly, on thedevelopment of reactor and separation technologies which candeliver enhanced processing performance in a safe, cost-effectiveand energy efficient manner. Process intensification has emerged asa promising field which can effectively tackle the challenges ofsignificant process enhancement, whilst also offering the potentialto diminish the environmental impact presented by the chemicalindustry. Following an introduction to process intensification and theprinciples of green chemistry, this book presents a number ofintensified technologies which have been researched and developed,including case studies to illustrate their application to greenchemical processes. Topics covered include: • Intensified reactor technologies: spinning discreactors, microreactors, monolith reactors, oscillatory flowreactors, cavitational reactors • Combined reactor/separator systems: membrane reactors,reactive distillation, reactive extraction, reactiveabsorption • Membrane separations for green chemistry • Industry relevance of process intensification,including economics and environmental impact, opportunities forenergy saving, and practical considerations for industrialimplementation. Process Intensification for Green Chemistry is a valuableresource for practising engineers and chemists alike who areinterested in applying intensified reactor and/or separator systemsin a range of industries to achieve green chemistry principles.

Ebook: Chemistry: The Molecular Nature of Matter and Change CRC Press

Edited by Professor CJ Li, one of the leading international experts in the fields of Green Chemistry and Green Synthesis, this volume presents such hot topics as synthesis without protecting groups, multi-component reactions, and synthesis in green solvents. The Handbook of Green Chemistry comprises of 9 volumes in total, split into 3 subject-specific sets. The three sets are available individually. All 9 volumes are available individually, too. Set I: Green Catalysis - Volume 1: Homogeneous Catalysis - Volume 2: Heterogeneous Catalysis - Volume 3: Biocatalysis Set II: Green Solvents - Volume 4: Supercritical Solvents - Volume 5: Reactions

in Water - Volume 6: Ionic Liquids Set III: Green Processes - Volume 7: Green Synthesis - Volume 8: Green Nanoscience - Volume 9: Designing Safer Chemicals The Handbook of Green Chemistry is also available as Online Edition. Podcasts Listen to two podcasts in which Professor Paul Anastas and Journals Editor Paul Trevorrow discuss the origin and expansion of Green Chemistry and give an overview of The Handbook of Green Chemistry.

Environmental Chemistry Macmillan

Recent years have seen huge growth in the area of sustainable chemistry. In order to meet the chemical needs of the global population whilst minimising impacts on health and the environment it is essential to keep reconsidering and improving synthetic processes. Sustainable Organic Synthesis is a comprehensive collection of contributions, provided by specialists in Green Chemistry, covering topics ranging from catalytic approaches to benign and alternative reaction media, and innovative and more efficient technologies.

Gcse Aqa Chemistry John Wiley & Sons

Aimed at students, this introduction to green chemistry encourages new ways of thinking about how products and processes are developed.

Operational Organic Chemistry CRC Press

This contribution to SpringerBriefs in Green Chemistry outlines and discusses the four major green chemistry metrics (atom economy, reaction mass efficiency, E factor and process mass intensity), at a level that is comprehensible by upper-level undergraduates. Such students have previously received fundamental training in organic chemistry basics, and are ideally positioned to learn about green chemistry principles, of which metrics is one foundational pillar. Following this, other green metrics in common use are discussed, along with applications that allow important calculations to be easily undertaken. Finally, an introduction to metrics in the context of life cycle analyses is presented. It should be noted that no other available publication teaches green chemistry metrics in detail with an emphasis on educating undergraduates, whilst simultaneously providing a contemporary industrial flavour to the material.

Green Processes Hodder Education

This book reviews the assessment of industrial biotechnology products and processes from a sustainable perspective. Industrial Biotechnology is a comparably young field which comes along with high expectations with regard to sustainability issues. These stem from the promise of reducing greenhouse gas emissions and replacing fossil resources in the near or later future and using green technology, i.e. more environmentally friendly technologies. The intended economic, ecological and social benefits, however, need to be proven, resulting in a variety of challenges, both from a methodological and application point of view. In this book, specific assessment and application topics of industrial biotechnology are addressed, highlighting challenges and solutions for both developers and users of assessment methods. In twelve chapters, experts in their particular fields define the scope, characterize industrial biotechnology and show in their contributions the state of the art, challenges and prospects of assessing industrial biotechnology products and processes. The chapter 'Societal and Ethical Aspects of Industrial Biotechnology' of this book is available open access under a CC

BY 4.0 license at link.springer.com

Green Chemical Reactions Springer Nature

Green chemistry is a work tool that can be applied in different areas such as medicine, materials, polymers, food, organic chemistry, etc., since it was propounded in the early 2000s. It has become a viable alternative for care, remediation and protection of the environment and has been implemented worldwide. In this book the twelve principles of green chemistry are presented in a simple way, with examples of the applications of green chemistry in numerous areas showcasing it as an ideal alternative for environmental care. It also provides information on current research being implemented at the pilot plant and industrial level. The book demonstrates the importance of the use of renewable raw materials, the use of catalysis and the implementation of alternative energy sources such as the use of microwaves and ultrasound in different separation and chemical processes.

Renewable Bioresources Walter de Gruyter GmbH & Co KG

The book describes on an introductory level the designing of chemical processes and products so as to reduce or eliminate the use or production of toxic or hazards substances. It explains the code of conduct meant to reduce the environmental impact of any chemical process, whether at laboratory scale or industrial scale. The synonyms of Green Chemistry are the Sustainable Chemistry or the low-environmental-impact Chemistry.

Green Chemistry and the Ten Commandments of Sustainability Allyn & Bacon

This fantastic CGP Student Book comprehensively covers both years of AQA A-Level Chemistry. It’s bursting with in-depth, accessible notes explaining every course topic, plus all of the Required Practicals. Everything’s supported by clear diagrams, photographs, tips and worked examples. Throughout the book there are lots of practice questions and exam-style questions (with answers at the back). There’s detailed guidance on Maths Skills and Practical Skills, as well as indispensable advice for success in the final exams. If you’d prefer Year 1 (9781782943211) & Year 2 (9781782943266) in separate books, CGP has them too! And for more detailed coverage of the mathematical elements of A-Level Chemistry, try our Essential Maths Skills book (978182944720)!

Green Chemistry for Beginners Hodder Education

The shift towards being as environmentally-friendly as possible has resulted in the need for this important volume on the role of ionic liquids in green chemistry. Edited by Peter Wasserscheid, one of the pioneers of ionic liquid research, and Annegret Stark, this is an essential resource for anyone wishing to gain an understanding of the world of green chemistry, as well as for chemists, environmental agencies and chemical engineers.