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Preparing for Your ACS Examination in General Chemistry-Lucy T. Eubanks 1998

Chemistry in Context-Albert Truman Schwartz 1994 Following in the tradition of the first four editions, the goal of this market leading textbook, "Chemistry in Context," fifth edition, is to establish chemical principles on a need-to-know basis within a contextual framework of significant social, political, economic and ethical issues. The non traditional approach of "Chemistry in Context" reflect today's technological issues and the chemistry principles imbedded within them. Global warming, alternate fuels, nutrition, and genetic engineering are examples of issues that are covered in CIC.

Active Learning in Organic Chemistry-Justin B. Houseknecht 2019 Organic chemistry courses are often difficult for students, and instructors are constantly seeking new ways to improve student learning. This volume details active learning strategies implemented at a variety of institutional settings, including small and large; private and public; liberal arts and technical; and highly selective and open-enrollment institutions. Readers will find detailed descriptions of methods and materials, in addition to data supporting analyses of the effectiveness of reported pedagogies.

Technology and Assessment Strategies for Improving Student Learning in Chemistry-Thomas Holme 2018-02-02 Although the difficulties many students encounter when learning chemistry have been known and explored for decades, there is no consensus on how best to assist and assess their learning. Over the past ten years, the availability of a range of technological innovations that are intended to improve student learning and assessment has made the choice of teaching and assessment strategies more complex. Many teachers are rapidly adopting new technologies in teaching and assessment although their impacts have not yet been extensively studied. Many researchers have investigated the use of specific technologies in aspects of their teaching and assessment, and this book contributes to a growing body of literature that allows some generalizations to be drawn. Most importantly, specific strategies are described in detail making it possible for others to take advantage of the learning experiences and allowing practitioners to adopt the practice best suited to their needs. General tools for chemistry education range from tailored websites (including Web 2.0 interactive features), to optimizing the use of flipped classrooms, to the application of commercial packages in a coherent manner. The book focuses on these aspects of using technology directly in teaching chemistry. One area of great interest in chemistry education is the role of the teaching laboratory and how best to optimize laboratory learning. The use of short videos, animations, and best assessment practices are also covered. The chapters in the book reflect the somewhat different teaching contexts of the countries in which the authors work.

Chemistry in the Community (Enhanced Core Four)-American Chemical Society 2006-02-15

Peterson's Graduate Programs in the Physical Sciences 2011-Peterson's 2011-05-01 Peterson's Graduate Programs in the Physical Sciences contains a wealth of information on colleges and universities that offer graduate work in Astronomy and Astrophysics, Chemistry, Geosciences, Marine Sciences and Oceanography, Meteorology and Atmospheric Sciences, and Physics. The institutions listed include those in the United States, Canada, and abroad that are accredited by U.S. accrediting bodies. Up-to-date information, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. As an added bonus, readers will find a helpful "See Close-Up" link to in-depth program descriptions written by some of these institutions. These Close-Ups offer detailed information about the physical sciences program, faculty members and their research, and links to the program or department's Web site. In addition, there are valuable articles on financial assistance and support at the graduate level and the graduate admissions process, with special advice for international and minority students. Another article discusses important facts about accreditation and provides a current list of accrediting agencies.

Practical Test-book of Chemistry-John Dabney Palmer 1907

Innovative Uses of Assessments for Teaching and Research-Lisa K. Kendhammer 2014-12 Instruction and assessment are so common to teaching and learning that for many readers this may be second nature. There are certainly many kinds of instruction and assessment available to instructors, and these are chosen based on many factors. Thinking beyond standard content tests, considering other, innovative assessments, we may enjoy a richer picture of what students know or understand by investigating prior knowledge, misconceptions, motivations, or self-concept. The book is organized into four general sections: the first section describes the processes by which assessments are constructed and used. The second section focuses on what is learned from assessments in an informal environment, including the use of practice exams and feedback provided to help students reflect on their own learning. Formal classroom assessments and the decisions associated with different assessments and techniques comprises the third section. The final section focuses on assessment goals and innovative investigations of student learning with descriptions of new assessments and new online tools for measuring student understanding.

Advances in Teaching Physical Chemistry-Mark David Ellison 2008 This book brings together the latest perspectives and ideas on teaching modern physical chemistry. It includes perspectives from experienced and well-known physical chemists, a thorough review of the education literature pertaining to physical chemistry, a thorough review of advances in undergraduate laboratory experiments from the past decade, in-depth descriptions of using computers to aid student learning, and innovative ideas for teaching the fundamentals of physical chemistry. This book will provide valuable insight and information to all teachers of physical chemistry.

Quantitative Chemical Analysis-Daniel C. Harris 2015-05-29 The gold standard in analytical chemistry, Dan Harris' Quantitative Chemical Analysis provides a sound physical understanding of the principles of analytical chemistry and their applications in the disciplines.

Rethinking Assessment in Higher Education-David Boud 2007-03-28 Assessment is a value-laden activity surrounded by debates about academic standards, preparing students for employment, measuring quality and providing incentives. There is substantial evidence that assessment, rather than teaching, has the major influence on students' learning. It directs attention to what is important and acts as an incentive for study. This book revisits assessment in higher education, examining it from the point of view of what assessment does and can do and argues that assessment should be seen as an act of informing judgement and proposes a way of integrating teaching, learning and assessment to better prepare students for a lifetime of learning. It is essential reading for practitioners and policy makers in higher education institutions in different countries, as well as for educational development and institutional research practitioners.

Advances in Gas Chromatography-Xinghua Guo 2014-02-26 For decades gas chromatography has been and will remain an irreplaceable analytical technique in many research areas for both quantitative analysis and qualitative characterization/identification, which is still supplementary with HPLC. This book highlights a few areas where significant advances have been reported recently and/or a revisit of basic concepts is deserved. It provides an overview of instrumental developments, frontline and modern research as well as practical industrial applications. The topics include GC-based metabolomics in biomedical, plant and microbial research, natural products as well as characterization of aging of synthetic materials and industrial monitoring, which are contributions of several experts from different disciplines. It also contains best hand-on practices of sample preparation (derivatization) and data processing in daily research. This book is recommended to both basic and experienced researchers in gas chromatography.

Organic Chemistry I For Dummies-Arthur Winter 2016-05-13 Organic Chemistry I For Dummies, 2nd Edition (9781119293378) was previously published as Organic Chemistry I For Dummies, 2nd Edition (9781118828076). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The easy way to take the confusion out of organic chemistry Organic chemistry has a long-standing reputation as a difficult course. Organic Chemistry I For Dummies takes a simple approach to the topic, allowing you to grasp concepts at your own pace. This fun, easy-to-understand guide explains the basic principles of organic chemistry in simple terms, providing insight into the language of organic chemists, the major classes of compounds, and top trouble spots. You'll also get the nuts and bolts of tackling organic chemistry problems, from knowing where to start to spotting sneaky tricks that professors like to incorporate. Refreshed example equations New explanations and practical examples that reflect today's

teaching methods Fully worked-out organic chemistry problems Baffled by benzenes? Confused by carboxylic acids? Here's the help you need—in plain English! Antiviral Strategies-Hans-Georg Kräusslich 2008-12-02 A crucial issue for antiviral therapy is the fact that all antiviral substances rapidly select for resistance; thus, monitoring and overcoming resistance has become a most important clinical paradigm of antiviral therapy. This calls for cautious use of antiviral drugs and implementation of combination therapies. In parallel, efforts in drug discovery have to be continued to develop compounds with novel mode-of-action and activity against resistant strains. This book reviews the current status of antiviral therapy, from the roads to development of new compounds to their clinical use and cost effectiveness. Individual chapters address in more detail all available drug classes and outline new approaches currently under development.

General, Organic, and Biochemistry-Katherine J. Denniston 2010-01-01 This edition is designed to help undergraduate health-related majors, and students of all other majors, understand key concepts and appreciate the significant connections between chemistry, health, disease, and the treatment of disease.

Learning and Understanding-National Research Council 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States, with a particular focus on the Advanced Placement and the International Baccalaureate programs, and asks how advanced studies can be significantly improved in general. It also examines two of the core issues surrounding these programs: they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education. By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs, this report provides teachers, parents, curriculum developers, administrators, college science and mathematics faculty, and the educational research community with a detailed assessment that can be used to guide change within advanced study programs.

Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2011 (Grad 4)-Peterson's 2011-05-01 Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources contains a wealth of information on colleges and universities that offer graduate work in these exciting fields. The institutions listed include those in the United States and Canada, as well international institutions that are accredited by U.S. accrediting bodies. Up-to-date information, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. Readers will find helpful links to in-depth descriptions that offer additional detailed information about a specific program or department, faculty members and their research, and much more. In addition, there are valuable articles on financial assistance, the graduate admissions process, advice for international and minority students, and facts about accreditation, with a current list of accrediting agencies.

Learning with Digital Games-Nicola Whitton 2009-09-10 Written for Higher Education teaching and learning professionals, Learning with Digital Games provides an accessible, straightforward introduction to the field of computer game-based learning. Up to date with current trends and the changing learning needs of today's students, this text offers friendly guidance, and is unique in its focus on post-school education and its pragmatic view of the use of computer games with adults. Learning with Digital Games enables readers to quickly grasp practical and technological concepts, using examples that can easily be applied to their own teaching. The book assumes no prior technical knowledge but guides the reader step-by-step through the theoretical, practical and technical considerations of using digital games for learning. Activities throughout guide the reader through the process of designing a game for their own practice, and the book also offers: A toolkit of guidelines, templates and checklists. Concrete examples of different types of game-based learning using six case studies. Examples of games that show active and experiential learning Practical examples of educational game design and development. This professional guide upholds the sound reputation of the Open and Flexible Learning series, is grounded in theory and closely links examples from practice. Higher Education academics, e-learning practitioners, developers and training professionals at all technical skill levels and experience will find this text is the perfect resource for explaining "how to" integrate computer games into their teaching practice. A companion website is available and provides up-to-date technological information, additional resources and further examples.

Analytical Chemistry-Bryan M. Ham 2015-10-01 A comprehensive study of analytical chemistry providing the basics of analytical chemistry and introductions to the laboratory Covers the basics of a chemistry lab including lab safety, glassware, and common instrumentation Covers fundamentals of analytical techniques such as wet chemistry, instrumental analyses, spectroscopy, chromatography, FTIR, NMR, XRF, XRD, HPLC, GC-MS, Capillary Electrophoresis, and proteomics Includes ChemTech an interactive program that contains lesson exercises, useful calculators and an interactive periodic table Details Laboratory Information Management System a program used to log in samples, input data, search samples, approve samples, and print reports and certificates of analysis

Drinking Water and Health, Volume 7-National Research Council 1987-02-01 Chlorination in various forms has been the predominant method of drinking water disinfection in the United States for more than 70 years. The seventh volume of the Drinking Water and Health series addresses current methods of drinking water disinfection and compares standard chlorination techniques with alternative methods. Currently used techniques are discussed in terms of their chemical activity, and their efficacy against waterborne pathogens, including bacteria, cysts, and viruses, is compared. Charts, tables, graphs, and case studies are used to analyze the effectiveness of chlorination, chloramination, and ozonation as disinfectant processes and to compare these methods for their production of toxic by-products. Epidemiological case studies on the toxicological effects of chemical by-products in drinking water are also presented.

Chiral Analysis-Kenneth W. Busch 2011-10-13 Chiral Analysis covers an important area of analytical chemistry of relevance to a wide variety of scientific professionals. The target audience is scientific professionals with an undergraduate background in chemistry or a related discipline, specifically organic chemists, researchers in drug discovery, pharmaceutical researchers involved with process analysis or combinatorial libraries, and graduate students in chemistry. Chapters have been written with the nonspecialist in mind so as to be self-contained. \* Broad coverage - spectroscopic and separation methods covered in a single volume \* Up-to-date and detailed review of the various techniques available and/or under development in this field \* Contributions from leading experts in the field

Basics of Analytical Chemistry and Chemical Equilibria-Brian M. Tissue 2013-06-06 Enables students to progressively build and apply new skills and knowledge Designed to be completed in one semester, this text enables students to fully grasp and apply the core concepts of analytical chemistry and aqueous chemical equilibria. Moreover, the text enables readers to master common instrumental methods to perform a broad range of quantitative analyses. Author Brian Tissue has written and structured the text so that readers progressively build their knowledge, beginning with the most fundamental concepts and then continually applying these concepts as they advance to more sophisticated theories and applications. Basics of Analytical Chemistry and Chemical Equilibria is clearly written and easy to follow, with plenty of examples to help readers better understand both concepts and applications. In addition, there are several pedagogical features that enhance the learning experience, including: Emphasis on correct IUPAC terminology "You-Try-It" spreadsheets throughout the text, challenging readers to apply their newfound knowledge and skills Online tutorials to build readers' skills and assist them in working with the text's spreadsheets Links to analytical methods and instrument suppliers Figures illustrating principles of analytical chemistry and chemical equilibria End-of-chapter exercises Basics of Analytical Chemistry and Chemical Equilibria is written for undergraduate students who have completed a basic course in general chemistry. In addition to chemistry students, this text provides an essential foundation in analytical chemistry needed by students and practitioners in biochemistry, environmental science, chemical engineering, materials science, nutrition, agriculture, and the life sciences.

Trajectories of Chemistry Education Innovation and Reform-Thomas Holme 2014-03-27 "Sponsored by the ACS Division of Chemical Education."

Expanding the Vision of Sensor Materials-Committee on New Sensor Technologies: Materials and Applications 1995-07-06 Advances in materials science and engineering have paved the way for the development of new and more capable sensors. Drawing upon case studies from manufacturing and structural monitoring and involving chemical and long wave-length infrared sensors, this book suggests an approach that frames the relevant technical issues in such a way as to expedite the consideration of new and novel sensor materials. It enables a multidisciplinary approach for identifying opportunities and making realistic assessments of technical risk and could be used to guide relevant research and development in sensor technologies.

Archaeological Chemistry-Martin Levey 2017-02-28 Papers in English, French, and German. Sponsored by the Division of History of Chemistry of the American Chemical Society. Includes bibliographical references. This collection of studies in archeological chemistry is the most important ever devoted to this field. In these pages its difficult experimental problems are treated by an impressive group of experts from all over the globe. Nearly all archeological chemistry's investigative methods are described: infrared spectra, emission spectroscopy, chemical analysis, X-ray fluorescent spectroscopy, petrographic examination, probing by electronic sound and micrography, C 14 dating, and others. These papers were first presented at the Third Symposium on Archeological Chemistry in September 1962 under the auspices of the American Chemical Society. The symposium was to bring together the knowledge and techniques so that more and better investigation might be encouraged and receive the proper recognition. The studies in this book possess not only great qualitative interest in their own areas but have a collective value in their portrayal of the state of affairs in the chemistry of ancient artifacts.

Radical Solutions and eLearning-Daniel Burgos 2020-05-22 Educational Technology is the right couple to a radical innovation. Thanks to the appropriate technology in the right context with the best fit to the target audience, education can be drastically improved, meaning a better performance, competence

achievement, match with the user's expectations and with the market needs. Serious games, Virtual reality, Augmented reality, Remote labs, Online learning, Blockchain, Mobile learning and many other key technologies allow for a better explanation of so many subjects, and even more: for a complete student involvement and a full teacher engagement into the educational system. Technology gives another angle to the same content, provides the user with a personalised experience and pushes the limits of knowledge a little further, every time. This book presents a number of radical innovations through technology, from experienced cases studies, to be replicated and inspired by; a powerful resource handbook for cutting-edge education.

Issues in Education by Subject, Profession, and Vocation: 2013 Edition- 2013-05-01 Issues in Education by Subject, Profession, and Vocation: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Health Education Research. The editors have built Issues in Education by Subject, Profession, and Vocation: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Health Education Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Education by Subject, Profession, and Vocation: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Modern Analytical Chemistry-David Harvey 2000 Modern Analytical Chemistry is a one-semester introductory text that meets the needs of all instructors. With coverage in both traditional topics and modern-day topics, instructors will have the flexibility to customize their course into what they feel is necessary for their students to comprehend the concepts of analytical chemistry.

Preparing for Your ACS Examination in Physical Chemistry-Thomas A. Holme 2009

General, Organic, and Biological Chemistry-Dorothy M. Feigl 1986

POGIL-Shawn R. Simonson 2019-04-16 Process Oriented Guided Inquiry Learning (POGIL) is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines. Beyond facilitating students' mastery of a discipline, it promotes vital educational outcomes such as communication skills and critical thinking. Its active international community of practitioners provides accessible educational development and support for anyone developing related courses. Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry, The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success, develop curricular materials to assist this process, conduct research expanding what is known about learning and teaching, and provide professional development and collegiality from elementary teachers to college professors. As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels. This is an introduction to the process and the community. Every POGIL classroom is different and is a reflection of the uniqueness of the particular context - the institution, department, physical space, student body, and instructor - but follows a common structure in which students work cooperatively in self-managed small groups of three or four. The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves, based entirely on data provided in class, not on prior reading of the textbook or other introduction to the topic. The learning environment is structured to support the development of process skills -- such as teamwork, effective communication, information processing, problem solving, and critical thinking. The instructor's role is to facilitate the development of student concepts and process skills, not to simply deliver content to the students. The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy. The second part of the book focusses on implementing POGIL, covering the formation and effective management of student teams, offering guidance on the selection and writing of POGIL activities, as well as on facilitation, teaching large classes, and assessment. The book concludes with examples of implementation in STEM and non-STEM disciplines as well as guidance on how to get started. Appendices provide additional resources and information about The POGIL Project.

On the Surface of Things-Felice Frankel 2007 Using innovative photographic technology, Felice Frankel finds startling abstract beauty on the surfaces of objects all around us. Chemist George M. Whitesides explains each photograph, describing why and how each of these phenomena occur.

Chemistry Education-Javier García-Martínez 2015-02-17 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top-level contributions provides a thorough review of the vibrant field of chemistry education. Highly-experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching, as well as the pivotal role of chemistry for shaping a more sustainable future. Adopting a practice-oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed include best practices, project-based education, blended learning and the role of technology, including e-learning, and science visualization. Hands-on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high-school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively, from experience chemistry professors to secondary school teachers, from educators with no formal training in didactics to frustrated chemistry students.

Synthesis and Technique in Inorganic Chemistry-Gregory S. Girolami 1999 Previously by Angelici, this laboratory manual for an upper-level undergraduate or graduate course in inorganic synthesis has for many years been the standard in the field. In this newly revised third edition, the manual has been extensively updated to reflect new developments in inorganic chemistry. Twenty-three experiments are divided into five sections: solid state chemistry, main group chemistry, coordination chemistry, organometallic chemistry, and bioinorganic chemistry. The included experiments are safe, have been thoroughly tested to ensure reproducibility, are illustrative of modern issues in inorganic chemistry, and are capable of being performed in one or two laboratory periods of three or four hours. Because facilities vary from school to school, the authors have included a broad range of experiments to help provide a meaningful course in almost any academic setting. Each clearly written & illustrated experiment begins with an introduction that highlights the theme of the experiment, often including a discussion of a particular characterization method that will be used, followed by the experimental procedure, a set of problems, a listing of suggested Independent Studies, and literature references.

Barron's AP Chemistry-Neil D. Jespersen, Ph.d. 2014-02 Chemistry definitions, formulas, and structures, organized according to the College Board's six "big ideas" for AP Chemistry, are presented in question form on more than 500 separate flash cards, with explanations and chemical reactions indicated on the reverse side. The cards measure 4 1/2" x 2 3/4" and have a punch-hole in one corner that accommodates an enclosed metal key-ring-style card holder. The ring allows students to arrange the flash cards in any sequence that suits their study needs. Updated to reflect the brand new AP Chemistry exam that will be administered for the first time in May 2014, these cards are a valuable study aid, whether used alone or in tandem with Barron's AP Chemistry review book. BONUS! An exclusive online exam included with the purchase of the flash cards.

Of Minds and Molecules-Nalini Bhushan 2000 Of Minds and Molecules is the first anthology devoted exclusively to work in the philosophy of chemistry. The essays, written by both chemists and philosophers, adopt distinctive philosophical perspectives on chemistry and collectively offer both a conceptualization of and a justification for this emerging field.

The ACS Style Guide-Anne M. Coghill 2006

Relevant Chemistry Education-Ingo Eilks 2015-07-22 This book is aimed at chemistry teachers, teacher educators, chemistry education researchers, and all those who are interested in increasing the relevance of chemistry teaching and learning as well as students' perception of it. The book consists of 20 chapters. Each chapter focuses on a certain issue related to the relevance of chemistry education. These chapters are based on a recently suggested model of the relevance of science education, encompassing individual, societal, and vocational relevance, its present and future implications, as well as its intrinsic and extrinsic aspects. "Two highly distinguished chemical educators, Ingo Eilks and AviHofstein, have brought together 40 internationally renowned colleagues from 16 countries to offer an authoritative view of chemistry teaching today. Between them, the authors, in 20 chapters, give an exceptional description of the current state of chemical education and signpost the future in both research and in the classroom. There is special emphasis on the many attempts to enthuse students with an understanding of the central science, chemistry, which will be helped by having an appreciation of the role of the science in today's world. Themes which transcend all education such as collaborative work, communication skills, attitudes, inquiry learning and teaching, and problem solving are covered in detail and used in the context of teaching modern chemistry. The book is divided into four parts which describe the individual, the societal, the vocational and economic, and the non-formal dimensions and the editors bring all the disparate leads into a coherent narrative, that will be highly satisfying to experienced and new researchers and to teachers with the daunting task of teaching such an intellectually demanding subject. Just a brief glance at the index and the references will convince anyone interested in chemical education that this book is well worth studying; it is scholarly and readable and has tackled the most important issues in chemical education today and in the foreseeable future." - Professor David Waddington, Emeritus Professor in Chemistry Education, University of York, United Kingdom

Analytical Chemistry-G.L. David 2001 This book deals with the principle and applications of analytical chemistry, and is useful for B.Sc. Chemistry students and those working in analytical research laboratories of drug, pesticide and other chemical industries.

Multiphase Environmental Chemistry in the Atmosphere-Sherri W. Hunt 2019-09-17 This book is based on a selection of presentations given at the very successful symposium "Multiphase Chemistry of Atmospheric Aerosols" held at the 2017 ACS Fall meeting and attended by a large number of researchers. This symposium provided an excellent opportunity to hear about multiple aspects of atmospheric multiphase chemistry from a diverse spectrum of presenters, including laboratory and field experimentalists and modelers. Similarly, by presenting the material in a single edited book, we hope to encourage cross-disciplinary thinking among these topics so that more scientists can imagine solutions to the challenges of understanding and mitigating the effects of atmospheric aerosols. The chapter authors begin with introductory material addressing scientists who may work in a broad range of disciplines, and then move to more specific details for the experts in the field. Therefore, this book should be an excellent resource for those just starting in the field of atmospheric chemistry and for those who want to initiate new research directions with a mix of basics and some of the newest advances.

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