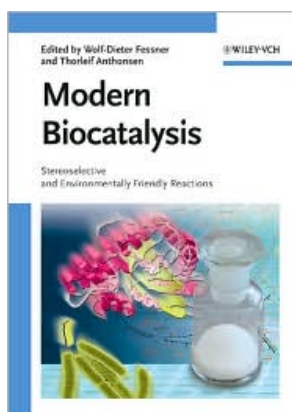


Enzyme Kinetics: Principles and Methods by Hans Bisswanger

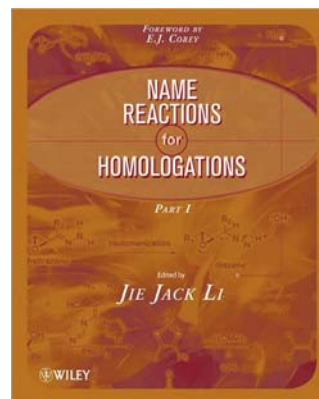
This new, expanded and updated edition of the user-friendly and comprehensive treatise on enzyme kinetics expertly balances theory and practice. With its easy-to-use program on CD-ROM containing examples allowing for the interpretation of experimental data, this is an indispensable aid for advanced students and professionals working with enzymes, whether biochemists, biotechnologists, chemical biologists, pharmacologists or bioengineers in academia, industry and clinical research.



Modern Biocatalysis: Stereoselective and Environmentally Friendly Reactions Edited by Wolf-Dieter Fessner and Thorleif Anthonsen

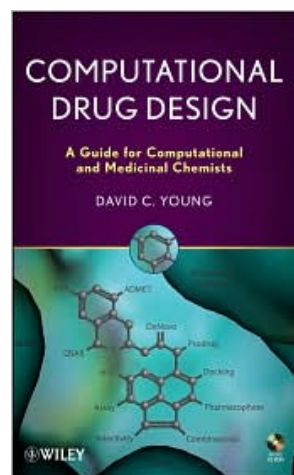
This reference covers the wide and rapidly growing field of biocatalysis. It combines complementary expertise from such areas as microbiology, enzymology, molecular biology structural biology and organic chemistry, thus highlighting the interdisciplinary nature of the subject.

With its special focus on progress and new developments towards environmentally beneficial reactions with high levels of selectivity for the production of key compound classes, this book will enlighten both chemists and biologists as to the advances and opportunities existing in enzyme catalysis.



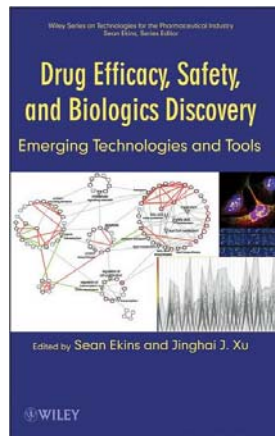
Name Reactions for Homologation Edited by Jie Jack Li and E. J. Corey

Name Reactions for Homologations, Part I of Wiley's Comprehensive Name Reactions series comprises a comprehensive treatise on name reactions for homologations. With contributions from world-recognized authorities in the field, this reference offers an up-to-date, concise compilation of the most commonly used and widely known name reactions and reagents. Part I discusses Organometallics, Carbon-chain Homologation, and Radical Chemistry.



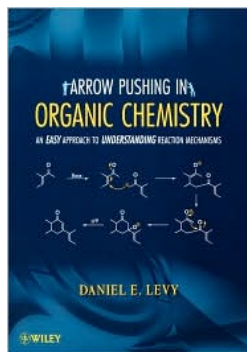
Computational Drug Design: A Guide for Computational and Medicinal Chemists by D. C. Young

Computational Drug Design covers all of the major computational drug design techniques in use today, focusing on the process that pharmaceutical chemists employ to design a new drug molecule. The discussions of which computational tools to use and when and how to use them are all based on typical pharmaceutical industry drug design processes. The book's accompanying CD-ROM, a special feature, offers graphics of the molecular structures and dynamic reactions discussed in the book as well as demos from computational drug design software companies.



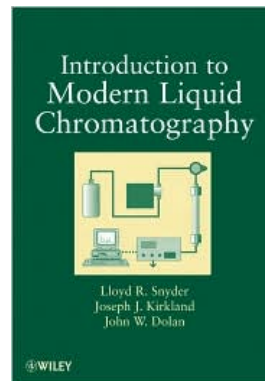
Drug Efficacy, Safety, and Biologics Discovery: Emerging Technologies and Tools by Sean Ekins and Jinghai J. Xu

This book covers key emerging technologies - detailed under About the Topic - in pharmaceutical R & D and how they have substantially impacted (or are currently impacting) drug discovery. The cross-disciplinary collaborations implicit in integrating these technologies with drug discovery operations will fuel the engine for future innovations. This book cuts across the multiple areas of drug discovery, each chapter authored by pioneers in that field, making for a broad appeal to the chemical and biological scientists and technologists involved in drug discovery and development.



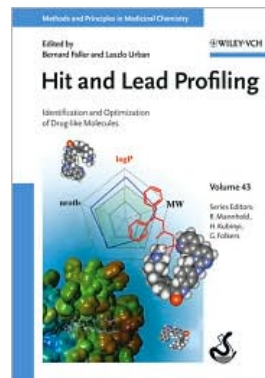
Arrow Pushing In Organic Chemistry by Daniel E. Levy

Find an easier way to learn organic chemistry with *Arrow-Pushing in Organic Chemistry: An Easy Approach to Understanding Reaction Mechanisms*, a book that uses the arrow-pushing strategy to reduce this notoriously challenging topic to the study of interactions between organic acids and bases. Understand the fundamental reaction mechanisms relevant to organic chemistry, beginning with S_N2 reactions and progressing to S_N1 reactions and other reaction types. The problem sets in this book, an excellent supplemental text, emphasize the important aspects of each chapter and will reinforce the key ideas without requiring memorization.



Introduction to Modern Liquid Chromatography by Lloyd R. Snyder, John W. Dolan

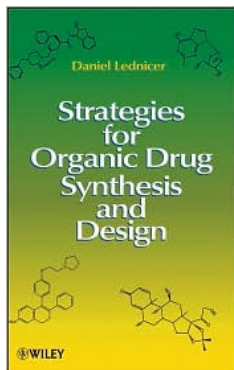
Introduction to Modern Liquid Chromatography, 3rd Edition provides in-depth comprehension of how HPLC is performed, the necessary materials, and possible applications accessible to all HPLC users, from novices to experts. This third edition now features new HPLC applications and technologies including chiral compound separations and bioseparations, as well as an update of HPLC computer software and technology. This text presents a comprehensive survey of HPLC methods and applications written by practicing scientists and current professors for researchers and students of analytical chemistry and separation science and professionals at all degree levels using liquid chromatography.



Hit and Lead Profiling: Identification and Optimization of Drug-like Molecules Edited by Bernard Faller and Laszlo Urban

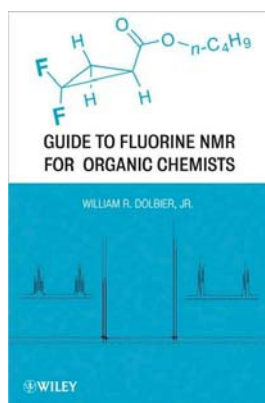
The only reference on current methods to generate pharmacokinetic and safety profiles of drug candidates, as well as how they must be balanced against one other for the best selection of candidates for further development.

Following a brief introduction to the necessities of filtering and risk assessment of potential new drug molecules before actual drug development, the two equally important aspects of pharmacological (ADME) and safety (toxicity) profiling are covered in separate parts.



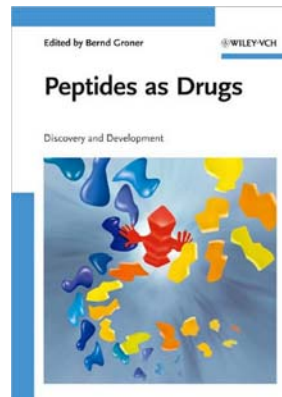
Strategies for Organic Drug Synthesis and Design by Daniel Lednicer

This book examines and evaluates the strategies utilized to design and synthesize pharmaceutically active agents. Significant updates over the last 10 years since the publication of the 1st edition include synthesis of enantiomerically pure isomers, novel chemical methodologies, and new pharmaceutical agents targeted at novel biological endpoints. Written by an experienced successful author, this book meets the needs of a growing community of researchers in pharmaceutical R &D, as well as medical professionals, by providing a useful guide for designing and synthesizing pharmaceutical agents. Additionally, it is a useful text for medicinal chemistry students.



Guide to Fluorine NMR for Organic Chemists by W. R. Dolbier

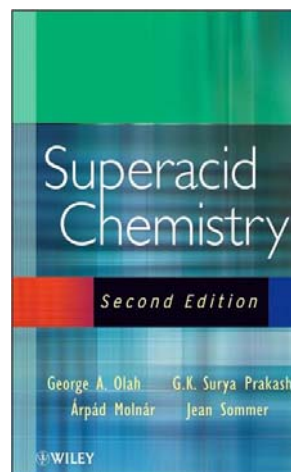
Guide to Fluorine NMR for Organic Chemists provides a unique single source on both fluorine NMR and the impact of fluorine substituents on proton and carbon NMR spectra. Helping working chemists overcome the challenges associated with the synthetic methodologies of fluorinated compounds, this guide enables the effective use of these increasingly popular spectroscopic techniques to accurately characterize compounds that contain fluorine. With unparalleled depth and completeness, the coverage ranges from those compounds containing only a few fluorinated substituents, typically employed in pharmaceutical and agricultural applications, to more heavily fluorinated compounds.



Peptides as Drugs: Discovery and Development by Bernd Groner

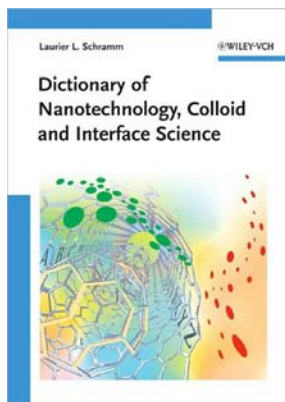
By covering the full spectrum of topics relevant to peptidic drugs, this timely handbook serves as an introductory reference for both drug developers and biomedical researchers interested in pharmaceutically active peptides, presenting both the advantages and challenges associated with this molecular class.

The first part discusses current approaches to developing pharmaceutically active peptides, including case studies of the use of peptidic drugs in cancer and AIDS therapy. The second part surveys strategies for the development and targeting of peptidic drugs.



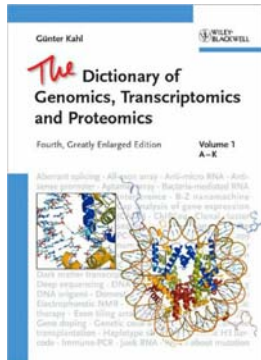
Superacid Chemistry by George A. Olah

The chemistry of superacids has developed in the last two decades into a field of growing interest and importance. Now available in a new expanded second edition, this definitive work on superacids offers a comprehensive review of superacids and discusses the development of new superacid systems and applications of superacids in the promotion of unusual reactions. Covering Bronsted and Leurs superacids, solid superacids, carbocations, heterocations, and catalyzed reactions, this timely volume is invaluable to professionals, faculty, and graduate students in organic, inorganic, and physical chemistry.



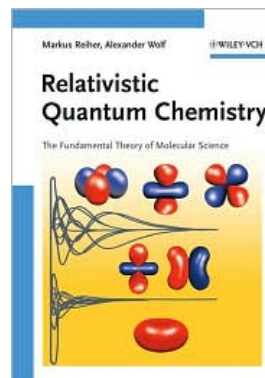
Dictionary of Nanotechnology, Colloid and Interface Science
by Laurier L. Schramm

This manageably sized dictionary covers theory, experiment, industrial practice and applications for nanotechnology, colloid, and interface science, as well as much of what is now termed materials science. The comprehensive information is presented in several sections and formats: dictionary of terms, classification tables on colloid and nanomaterial types, and sub-term glossaries for specific phenomena, properties and methods. It offers both newly-coined as well as older terms whose meanings have changed, providing acronyms, synonyms, famous names, selected abbreviations, and cross-references.



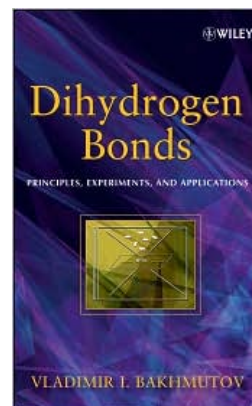
The Dictionary of Genomics, Transcriptomics and Proteomics
by Guenter Kahl

This new edition appreciates a far-reaching diversification of the technical language of the three disciplines and tries to order the sometimes confusing usage of multiple synonyms, acronyms and laboratory jargons. It presents extensive explanations of the terms, frequently supported by illustrations, and provides multiple links to related terms of neighboring science fields such as genetics, molecular genetics, molecular medicine, biotechnology, nanotechnology, microbiology, biochemistry and bio-physics. All the chemical formulas are professionally drawn in a uniform style, and most of the figures and schemes are custom-designed.



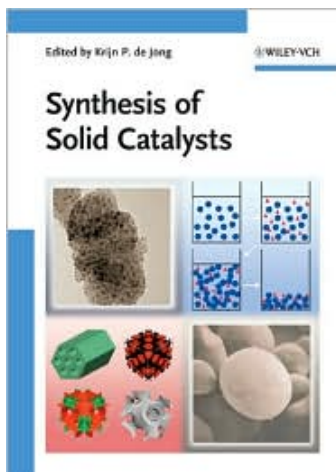
Relativistic Quantum Chemistry: The Fundamental Theory of Molecular Science
by Markus Reiher and Alexander Wolf

Written by two researchers in the field, this book is a reference to explain the principles and fundamentals in a self-contained, complete and consistent way. Much attention is paid to the didactical value, with the chapters interconnected and based on each other. From beginning to end, the authors deduce all the concepts and rules, such that readers are able to understand the fundamentals and principles behind the theory. Essential reading for theoretical chemists and physicists.



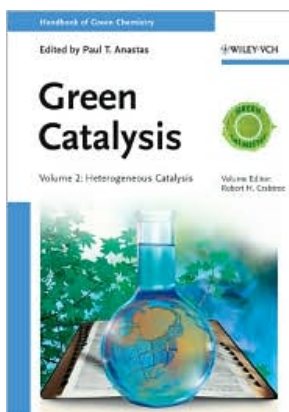
Dihydrogen Bond: Principles, Experiments, and Applications
by Vladimir I. Bakhmutov

This definitive reference consolidates current knowledge on dihydrogen bonding, emphasizing its role in organizing interactions in different chemical reactions and molecular aggregations. After an overview, it analyzes the differences between dihydrogen bonds, classical hydrogen bonds, and covalent bonds. It describes dihydrogen bonds as intermediates in intramolecular and intermolecular proton transfer reactions. It describes dihydrogen bonding in the solid-state, the gas phase, and in solution. This is the premier reference for physical chemists, biochemists, biophysicists, and chemical engineers.



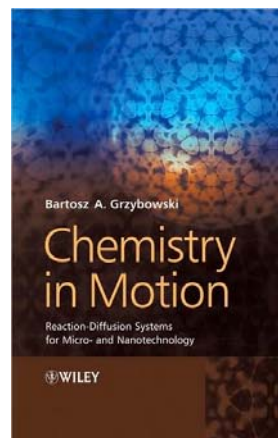
Synthesis of Solid Catalysts
by Krijn P. de Jong

This practical book combines recent progress with a discussion of the general aspects of catalyst preparation. The first part deals with the basic principles of solid catalyst preparation, explaining the main aspects of sol-gel chemistry and interfacial chemistry, followed by such techniques as co-precipitation and immobilization. New tools for catalyst preparation research, including microspectroscopy and high-throughput experimentation, are also taken into account. The second part heightens the practical relevance by providing six case studies on such topics as the preparation of zeolites, hydrotreating catalysts, methanol catalysts and gold catalysts.



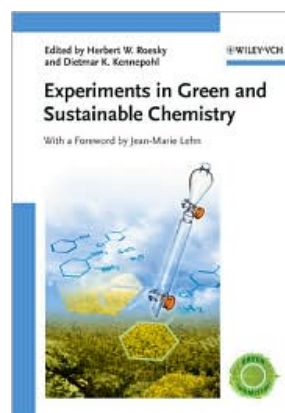
Handbook of Green Chemistry - Green Catalysis
Edited by Paul T. Anastas and Robert H. Crabtree

In a world where the emphasis has shifted to being as Green and environmentally friendly as possible, leads to the requirement of this important 12-volume Handbook of Green Chemistry edited by the father and pioneer of Green Chemistry, Professor Paul Anastas. This series summarises the significant body of work that has accumulated over the past decade that details the breakthroughs, innovation and creativity within Green Chemistry and Engineering.



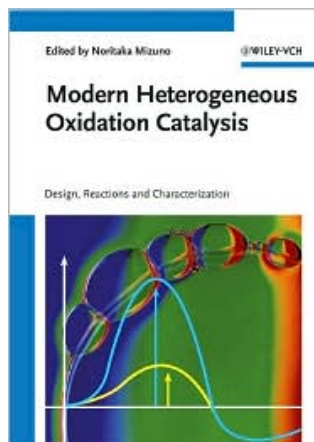
Chemistry in Motion: Reaction-Diffusion Systems for Micro- and Nanotechnology
by Bartosz A. Grzybowski

Change and motion define and constantly reshape the world around us, on scales from the molecular to the global. In particular, the subtle interplay between chemical reactions and molecular transport gives rise to an astounding richness of natural phenomena, and often manifests itself in the emergence of intricate spatial or temporal patterns. The underlying theme of this book is that by "setting chemistry in motion" in a proper way, it is not only possible to discover a variety of new phenomena, in which chemical reactions are coupled with diffusion, but also to build micro-/nanoarchitectures and systems of practical importance.



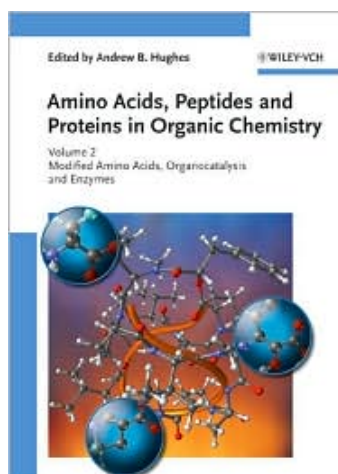
Experiments in Green and Sustainable Chemistry
Edited by Herbert W. Roesky and Dietmar Kennepohl

Encouraging a new attitude and approach to chemistry, this is the first such collection designed for lab courses and experimental teaching. Experts from around the globe present over 40 real-life teaching experiments, all clearly structured and divided into the five main principles of sustainable and green chemistry: catalysis, solvents, high yield and one-pot synthesis, limiting waste and exposure, as well as special topics.



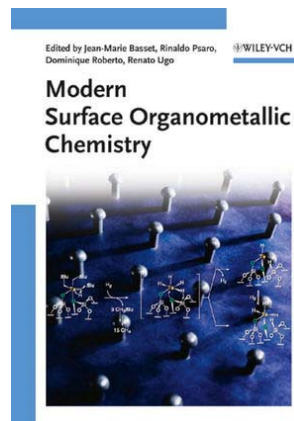
**Modern Heterogeneous Oxidation Catalysis:
Design, Reactions and Characterization
by Noritaka Mizuno**

Filling a gap in the current literature, this comprehensive reference presents all important catalyst classes, including metal oxides, polyoxometalates, and zeolites. Readers will find here everything they need to know — from structure design to characterization, and from immobilization to industrial processes.



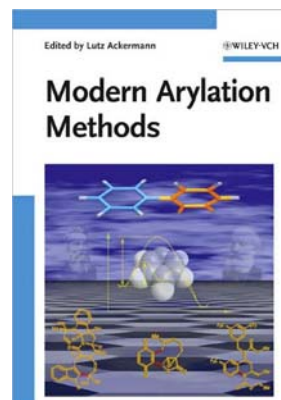
**Amino Acids, Peptides and Proteins in Organic
Chemistry
by Andrew B. Hughes**

Closing a gap in the literature, this is the only book series to cover this important topic in organic and biochemistry. Drawing upon the combined expertise of the international "who's who" in amino acid research, this series is a real benchmark for amino acid chemistry, providing a comprehensive discussion of the occurrence, uses and applications of amino acids and, by extension, their polymeric forms, peptides and proteins. The practical value of each volume is heightened by the inclusion of experimental procedures.



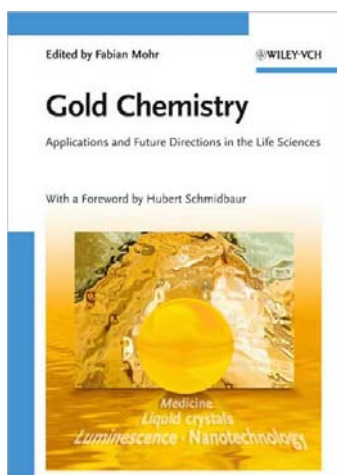
**Modern Surface Organometallic Chemistry
by Jean -Marie Basset**

The first book on this hot topic represents an advanced overview of the field, covering everything from the basics to recent applications. Edited by internationally acclaimed experts respected throughout the community, the book is clearly divided into two sections. The first part deals with the fundamentals, such as characterization techniques, metal clusters analogies, molecular modeling, and the emergence of solid supports, while the second part focuses on the applications in catalysis, organometallic syntheses, and in hybrid materials.



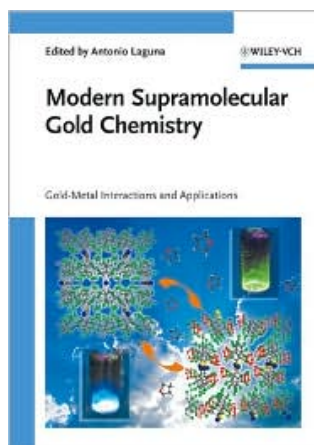
**Modern Arylation Methods
by Lutz Ackermann**

Today, arylation methods are belonging to the most important reaction types in organic synthesis. Lutz Ackermann, a young and ambitious professor has gathered a number of top international authors to present the first comprehensive book on the topic. Starting from a historical review, the book covers hot topics like Palladium-catalyzed arylation of N-H and alpha-C-H-acidic Bonds, Copper-catalyzed arylation of N-H and O-H Bonds, direct arylation reactions, carbanion aromatic synthesis, arylation reactions of alkenes, alkynes and much more. This compact source of high quality information is indispensable to synthetic chemists and those working in the pharmaceutical and chemical industry.



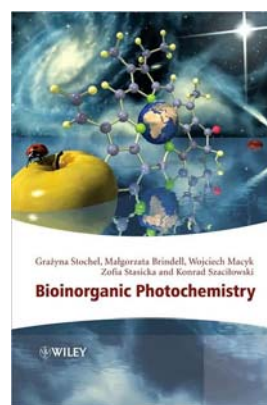
Gold Chemistry: Applications and Future Directions in the Life Sciences Edited by Fabian Mohr

Written by world-class authors, this most recent major book on the topic highlights new and current trends as well as future directions. It is comprehensive in its scope, covering all aspects of gold chemistry — from homogeneous to heterogeneous catalysis, from supramolecular assemblies to sensors and medicinal applications. The result is an invaluable work for both organic and inorganic chemists working in universities and industry, as well as material scientists.



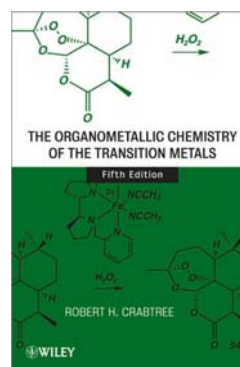
Modern Supramolecular Gold Chemistry: Gold-Metal Interactions and Applications Edited by Antonio Laguna

Written by an eminent team of authors from academia, the book analyzes the current status of gold chemistry, its special characteristics, oxidation states and main type of complexes, before going on to look at the synthesis of supramolecular aggregates due to the formation of gold-gold, gold-metal interactions or other secondary bonds. Final sections deal with LEDs, solvoluminescent and electroluminescent materials, liquid crystals and catalysis.



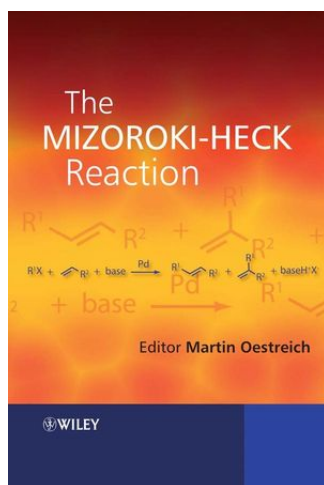
Bioinorganic Photochemistry by Grazyna Stochel

Bioinorganic photochemistry is a rapidly evolving field integrating inorganic photochemistry with biological, medical and environmental sciences. The interactions of light with inorganic species in natural systems, and the applications in artificial systems of medical or environmental importance, form the basis of this challenging inter-disciplinary research area. *Bioinorganic Photochemistry* provides a comprehensive overview of the concepts and reactions fundamental to the field, illustrating important applications in biological, medical and environmental sciences.



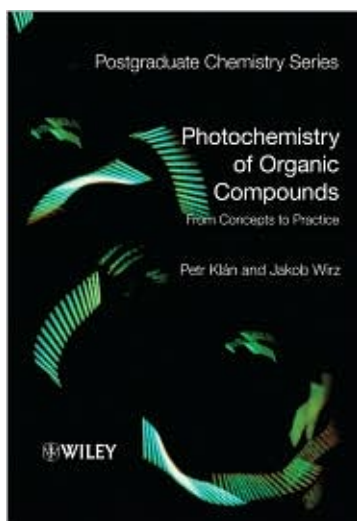
The Organometallic Chemistry of the Transition Metals by Robert H. Crabtree

Crabtree (chemistry, Yale University) provides students and chemists with an introduction to the principles and general properties of organometallic compounds, supplying information on relevant reaction mechanisms along with detailed descriptions of contemporary applications to organic synthesis, organized by reaction type. New to this fourth edition are a section on elements of the f-block, revised material on organic synthetic applications, and updates to the chapter on bioorganometallic chemistry. The book is appropriate as a main text for courses in inorganic chemistry and organometallic chemistry, and as a supplementary text for courses in bioinorganic chemistry.



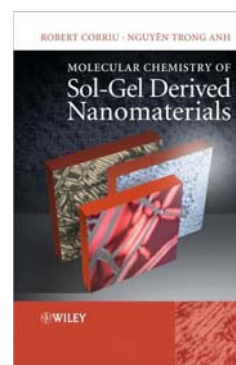
The Mizoroki-Heck Reaction Edited by Martin Oestreich

The Mizoroki-Heck reaction is a palladium-catalyzed carbon-carbon bond forming process which is widely used in organic and organometallic synthesis. It has seen increasing use in the past decade as chemists look for strategies enabling the controlled construction of complex carbon skeletons. Several chapters are devoted to asymmetric Heck reactions with particular focus on the construction of otherwise difficult-to-obtain sterically congested tertiary and quaternary carbons. Industrial and academic applications are highlighted in the final section.



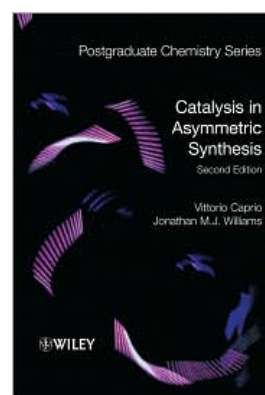
Photochemistry of Organic Compounds: From Concepts to Practice by Petr Klán and Jakob Wirz

Photochemistry of Organic Compounds: From Concepts to Practice provides a hands-on guide demonstrating the underlying principles of photochemistry and, by reference to a range of organic reaction types, its effective use in the synthesis of new organic compounds and in various applications.



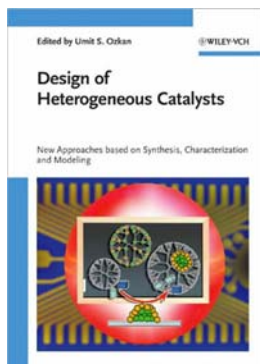
Molecular Chemistry of Sol-Gel Derived Nanomaterials by Robert Corriu

Presenting the wide range of synthetic possibilities opened by sol-gel processes in the field of organic-inorganic materials, *Molecular Chemistry of Sol-Gel Derived Nanomaterials* discusses the state of the art in the synthesis of the various nanomaterials. The text includes examples of applications, including photoluminescent nanocomposites, grafted nanomaterials for selective separations of ions or isotopes, for cascade syntheses, chelation of transition metals and lanthanides by lamellar structured nanomaterials, and immobilized enzymes on mesoporous nanomaterials.



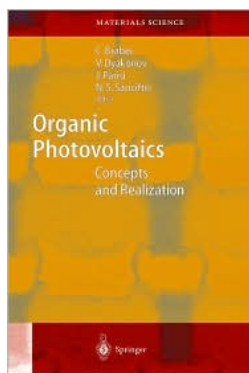
Catalysis in Asymmetric Synthesis by Vittorio Caprio and Jonathan Williams

Controlling the stereochemical outcome of reactions in the synthesis of complex natural products or bioactive materials represents a considerable intellectual and practical challenge for chemists. The stereochemical features of these products are usually essential to their bioactivity, so asymmetric synthesis has become a dominant feature of modern organic chemistry. Asymmetric catalysis is an important aspect of asymmetric synthesis, and one that has seen significant progress in the development of widely applicable methodology. The emphasis is on non-enzymatic methods of asymmetric catalysis, although key references to enzyme-catalysed reactions have been incorporated where appropriate.



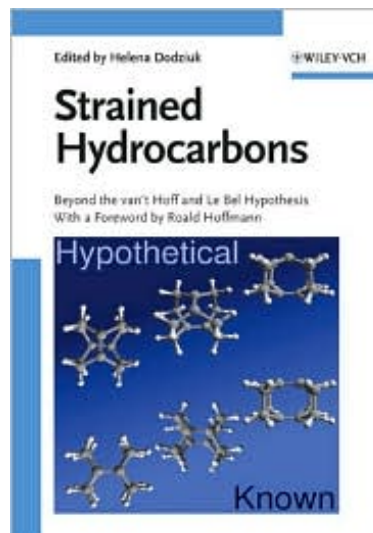
Design of Heterogeneous Catalysts: New Approaches based on Synthesis, Characterization and Modeling
Edited by Umit S. Ozkan

This long-awaited reference source is the first book to focus on this important and hot topic. As such, it provides examples from a wide array of fields where catalyst design has been based on new insights and understanding, presenting such modern and important topics as self-assembly, nature-inspired catalysis, nano-scale architecture of surfaces and theoretical methods. With its inclusion of all the useful and powerful tools for the rational design of catalysts, this is a true "must have" book for every researcher in the field.



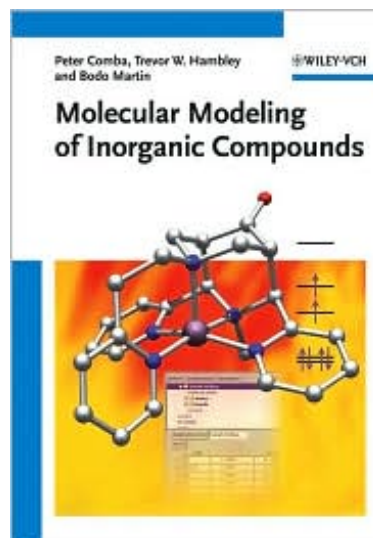
Organic Photovoltaics
by Christoph Brabec

ORGANIC PHOTOVOLTAICS describes the fundamentals of organic/plastic solar cells in a manner accessible to both researchers and students. It provides a comprehensive analysis of the operational principles underlying several types of solar cells that have absorber layers based on polymer materials and small molecules. It addresses competing approaches, such as polymer solar cells and dye-sensitized cells, while considering the thermodynamic principles within the context of these schemes. ORGANIC PHOTOVOLTAICS also analyzes in detail the charge-transfer processes in the bulk-heterojunction devices corresponding to the relevant mechanism of carrier generation.



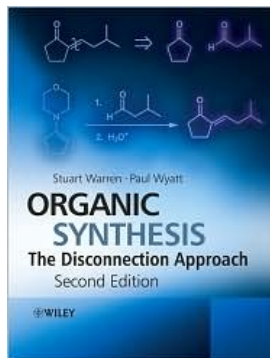
Strained Hydrocarbons: Beyond the van't Hoff and Le Bel Hypothesis
Edited by Helena Dodziuk

In clearly structured chapters, this book covers the fascinating world of hydrocarbons, providing an insight into the fundamental principles of chemistry. The monograph covers modern aspects of the topic, such as carbon nanotubes, molecular flask inclusion, and fullerenes, with new synthetic procedures for the build up of the structural lattice included.



Molecular Modeling of Inorganic Compounds
by Peter Comba

This book explains the applications of molecular modeling to inorganic and coordination compounds. It offers a general introduction to molecular modeling, and then presents examples illustrating its wide range of applicability to metal complexes. Specific instruction is provided concerning the application of the method to new systems and the interpretation of the results.



Organic Synthesis: The Disconnection Approach by Stuart Warren and Paul Wyatt

One approach to organic synthesis is retrosynthetic analysis. With this approach a chemist will start with the structure of their target molecule and progressively cut bonds to create simpler molecules. Reversing this process gives a synthetic route to the target molecule from simpler starting materials. This “disconnection” approach to synthesis is now a fundamental part of every organic synthesis course. ***Organic Synthesis: The Disconnection Approach, 2nd Edition*** introduces this important technique, to help students to design their own organic syntheses. There are forty chapters: those on the synthesis of given types of molecules alternate with strategy chapters in which the methods just learnt are placed in a wider context.