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This chapter focuses on the use of ionic liquids as solvents for organic processes, with particular emphasis on understanding the microscopic origin of the changes in reaction outcome observed when moving from a molecular to an ionic solvent.

Reactions in Ionic Liquids - Wiley Online Library

Ionic Reactions Wiley Ionic Reactions Wiley 222 Chapter 6 Ionic Reactions—Nucleophilic Substitution and Elimination Reactions of Alkyl Halides 6.1 Organic Halides In the laboratory and in industry, alkyl halides are used as solvents for relatively nonpo-lar compounds, and they are used as the starting materials for the synthesis of many com- IONIC REACTIONS - Wiley The role and enlarged importance of ionic

Ionic liquids are a fascinating class of novel solvents, which are attracting attention as possible 'green' alternative to volatile molecular organic solvents to be applied in catalytic and organic reactions and electrochemical and separation processes.

Ionic liquids: solvent properties ... - Wiley Online Library

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Abstract. Chiral ionic liquids derived from natural amino acids are shown to be green and efficient media for direct asymmetric aldol reactions at room temperature catalyzed by (S)?proline. The corresponding aldol products were obtained with moderate to good enantioselectivities. A transfer of chirality from the chiral reaction media has been observed as well as the participation of match/mismatch interactions of the chiral medium with both enantiomers of proline.

Chiral Room Temperature Ionic ... - Wiley Online Library

In this study, the chemical reaction between metallic iron and a limited water supply at ~120 GPa was investigated using time-resolved in situ synchrotron X-ray diffraction measurements in combination with the laser-heated diamond anvil cell technique.

Chemical Reaction Between Metallic Iron and a Limited ...

Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale. It's goal is the successful design and operation of chemical reactors. This text emphasizes qualitative arguments, simple design methods, graphical procedures, and frequent comparison of capabilities of the major reactor types.

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Chemical Reaction Engineering, Third Edition helps students learn how to answer reactor design questions reliably and effectively. To accomplish this, the text emphasizes qualitative arguments, simple design methods, graphical procedures, and frequent comparison of capabilities of major reactor types. This approach helps students develop a strong intuitive sense for good design.

Chemical Reaction Engineering, 3rd Edition | Wiley

A fully updated edition of a popular textbook covering the four disciplines of chemical technology - featuring new developments in the field Clear and thorough throughout, this textbook covers the major sub-disciplines of modern chemical technology: chemistry, thermal and mechanical unit operations, chemical reaction engineering, and general chemical technology - alongside raw materials, energy ...

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Description Focused on the undergraduate audience, Chemical Reaction Engineering provides students with complete coverage of the fundamentals, including in-depth coverage of chemical kinetics. By introducing heterogeneous catalysis early in the book, the text gives students the knowledge they need to solve real chemistry and industrial problems.

Chemical Reactions and Chemical Reactors | Wiley

Demonstrated here is that ionic liquids (ILs) can be employed as a chemical trapping agent to probe CO₂RR mechanistic pathways. This method is implemented by introducing a small amount of an IL ([BMIm][NTf₂]) to a copper foam catalyst, on which a wide range of CO₂RR products, including formate, CO, alcohols, and hydrocarbons, can be produced.

Probing CO₂ Reduction Pathways for ... - Wiley Online Library

Abstract. The role and enlarged importance of ionic liquids (ILs) in chemical reactions were already exhaustively demonstrated. The aim of this review is to promote the family of the phosphonium-based ILs used as reagents and catalysts, which gained increased interest in the last decade. The common and beneficial properties of ILs refer to their negligible vapour pressure, non-toxicity, reusability, and high thermal stability.

Phosphonium-Based Ionic Liquids ... - Wiley Online Library

In this Essay we propose tox-Profiles of chemical reactions to eliminate misleading preconceptions about the biological activity of organic molecules and to stimulate further progress in the field. t...

Introducing tox-Profiles of Chemical Reactions - Egorova ...

Abstract Liquid-crystalline ionic liquids (LCILs) are ordered materials that have untapped potential to be used as reaction media for synthetic chemistry. This paper investigates the potential for the ordered structures of LCILs to influence the stereochemical outcome of the Diels-Alder reaction between cyclopentadiene and methyl acrylate.

Liquid-Crystalline Ionic Liquids as Ordered Reaction Media ...

The mass of the steel and slag participating in the interfacial reaction of T₁/Sl. and T_{n+1}/Sl. was proportional to the contact area of the tanks and slag. After the interfacial reaction and product partitioning, slag (Sl.) and phases in tanks 1 (T₁) and n + 1 (T_{n+1}) approached equilibrium, respectively. Based on the calculated mass of ...

Modeling of Ladle Refining Process Considering Mixing and ...

Abstract Ionic liquids (ILs) can behave as green solvents in comparison with conventional organic solvents, but more often they also act as ligands, co-catalysts, and stabilizing agents both for

metal active species and for intermediates of catalytic systems.

Recent Advances in Pd-Catalyzed Cross-Coupling Reaction in ...

Self-catalysis is defined as catalysis by a product of a chemical reaction, that causes a significant increase in reaction rate in terms of the progress of the reaction. When a self-catalytic reaction is involved in a reversible nonequilibrium-to-equilibrium chemical reaction, notable kinetic phenomena appear including sigmoidal kinetics, the seeding effect, thermal hysteresis, and ...

Synthetic Chemical Systems ... - Wiley Online Library

Molecular Orbitals and Organic Chemical Reactions: Student Edition is an invaluable first textbook on this important subject for students of organic, physical organic and computational chemistry. The Reference Edition edition takes the content and the same non-mathematical approach of the Student Edition, and adds extensive extra subject coverage, detail and over 1500 references.

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