

1. Record Nr.	UNINA9910138977603321
Titolo	Supported ionic liquids : fundamentals and applications // edited by Rasmus Fehrmann, Anders Riisager, and Marco Haumann
Pubbl/distr/stampa	Weinheim : , : Wiley-VCH Verlag GmbH, , [2014] ©2014
ISBN	3-527-65480-1 3-527-65478-X 3-527-65481-X
Descrizione fisica	1 online resource (497 p.)
Altri autori (Persone)	FehrmannRasmus RiisagerAnders HaumannMarco
Disciplina	541.395
Soggetti	Ionic solutions Catalysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Supported Ionic Liquids; Contents; Preface; List of Contributors; Chapter 1 Introduction; 1.1 A Century of Supported Liquids; 1.2 Supported Ionic Liquids; 1.3 Applications in Catalysis; 1.4 Applications in Separation; 1.5 Coating of Heterogeneous Catalysts; 1.6 Monolayers of IL on Surfaces; 1.7 Conclusion; References; Part I Concept and Building Blocks; Chapter 2 Introducing Ionic Liquids; 2.1 Introduction; 2.2 Preparation; 2.3 Liquid Range; 2.4 Structures; 2.4.1 The Liquid/Solid Interface; 2.4.2 The Liquid/Gas Interface; 2.5 Physical Properties; 2.5.1 The Liquid/Solid Interface 2.5.2 The Liquid/Gas Interface2.5.3 Polarity; 2.5.4 Chromatographic Measurements and the Abraham Model of Polarity; 2.5.5 Infinite Dilution Activity Coefficients; 2.6 Effects of Ionic Liquids on Chemical Reactions; 2.7 Ionic Liquids as Process Solvents in Industry; 2.8 Summary; References; Chapter 3 Porous Inorganic Materials as Potential Supports for Ionic Liquids; 3.1 Introduction; 3.2 Porous Materials - an Overview; 3.2.1 History; 3.2.2 Pore Size; 3.2.3 Structural Aspects; 3.2.4 Chemistry; 3.2.5 Synthesis; 3.3 Silica-Based Materials - Amorphous;

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3.3.2 Precipitated Silicas
3.3.3 Porous Glass; 3.4 Layered Materials; 3.5 Microporous Materials; 3.5.1 Zeolites; 3.5.2 AlPOs/SAPOs; 3.5.3 Hierarchical Porosity in Zeolite Crystals; 3.6 Ordered Mesoporous Materials; 3.6.1 Silica-Based Classical Compounds; 3.6.2 PMOs; 3.6.3 Mesoporous Carbons; 3.6.4 Other Mesoporous Oxides; 3.6.5 Anodic Oxidized Materials; 3.7 Structured Supports and Monolithic Materials; 3.7.1 Monoliths with Hierarchical Porosity; 3.7.2 Hierarchically Structured Reactors; 3.8 Conclusions; References; Chapter 4 Synthetic Methodologies for Supported Ionic Liquid Materials

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Chapter 6 Transport Phenomena, Evaporation, and Thermal Stability of Supported Ionic Liquids
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6.3.3.1 Evaluation of Vapor Pressure and Decomposition of ILs by Ambient Pressure TG at Constant Heating Rate

Sommario/riassunto

This unique book gives a timely overview about the fundamentals and applications of supported ionic liquids in modern organic synthesis. It introduces the concept and synthesis of SILP materials and presents important applications in the field of catalysis (e.g. hydroformylation, hydrogenation, coupling reactions, fine chemical synthesis) as well as energy technology and gas separation. Written by pioneers in the field, this book is an invaluable reference book for organic chemists in academia or industry.
