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Materials Research Solid State Physics and Engineering

Industrial Applications of Green Solvents I

Eds. Inamuddin, Mohd Imran Ahamed and Abdullah M. Asiri

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The book focuses on new applications of green solvents (water, ionic liquids, supercritical carbon dioxide, terpenes).

Keyword: Green Chemistry, Pollution Control, Hazardous Waste, Environmental Pollution, Green Solvents, Ionic Liquids, Supercritical Carbon Dioxide, Terpenes, Chemical Synthesis, Lipase-catalyzed Reactions, Organic Synthesis, Esterification, Gas Separation Membranes, Environment-friendly Products, Low Energy Requirement Processes, Alternatives to Hazardous Substances, Spiroheterocycles in Water, Sustainable Organic Synthesis, Chemical Industry, Pharmaceutical Industry, Paint Industry, Leather Industry

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ISBN 13: 978-1-64490-023-9, Publication Date: 2019 (6/20/2019) Direct URL: http://www.mrforum.com/product/green-solvents-I

354 pages, PDF eBook DRM Free, USD 125.00

Materials Research Foundations Vol. 50 / **BISAC:** TEC021000 / **BIC/Thema:** TGM **Imprint:** Materials Research Forum LLC, *Publisher's sales rights are Wordwide*

Summary:

Green chemistry aims at reducing pollution and avoiding hazardous waste in the environment, as well as in a number of industrial applications, including chemical, pharmaceutical, paint and leather industries. The book focuses on new applications of green solvents (water, ionic liquids, supercritical carbon dioxide, terpenes) in such areas as chemical synthesis (including lipase-catalyzed reactions, organic synthesis, esterification reactions), gas separation membranes, environment-friendly products, low energy requirement processes and alternatives to hazardous substances.

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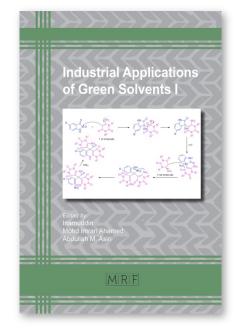
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