

1. Record Nr.	UNINA9910863199103321
Titolo	Deep Eutectic Solvents for Medicine, Gas Solubilization and Extraction of Natural Substances // edited by Sophie Fourmentin, Margarida Costa Gomes, Eric Lichtfouse
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-53069-8
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XII, 312 p. 92 illus., 48 illus. in color.)
Collana	Environmental Chemistry for a Sustainable World, , 2213-7122 ; ; 56
Disciplina	541.3482
Soggetti	Green chemistry Cogeneration of electric power and heat Fossil fuels Environment Green Chemistry Fossil Fuel Environmental Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Chapter 1. Understanding the Basics and Properties of Deep Eutectic Solvents; Tracy El Achkar, Hélène Greige-Gerges, Sophie Fourmentin -- Chapter 2. Deep eutectic solvents for innovative pharmaceutical formulations; François-Xavier Legrand -- Chapter 3. Therapeutic deep eutectic systems for the enhancement of drug bioavailability; Ana Rita C. Duarte -- Chapter 4. Solubility of gases in deep eutectic solvents; M. Costa Gomes -- Chapter 5. Hydrophobic deep eutectic solvents; John D. Holbrey -- Chapter 6. Methods for extraction of bioactive compounds from plant and animal matter using deep eutectic solvents; Hélène Greige-Gerges -- Chapter 7. Extraction of plant and algal polyphenols using eutectic solvents; Corinne Lagrost -- Index.
Sommario/riassunto	Initially considered as a sub-class of ionic liquids, eutectic mixtures are formed by mixtures of low cost, often biodegradable Lewis or Bronsted acids and bases. Eutectic mixtures have gathered a growing scientific

interest by the academic and industrial communities as they are interesting for many applications ranging from metal processing to biomass treatment or pharmaceuticals. This volume gathers contributions by some of the most active research groups in the world using eutectic mixtures for applications in separation, extraction or pharmaceutical and medical applications. The different contributions aim at a large overview of the field for these particular applications by reviewing literature data and presenting ground breaking research in the different fields.
