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	Nota di contenuto	Table of Contents -- 1. Ethanol Production from Bioresources and Its Kinetic Modeling: Optimization Methods -- 2. Catalysis for Glycerol Production and Its Applications -- 3. Bioethanol Production -- 4. Sustainable Synthesis of Pyridine Bases from Glycerol -- 5. Catalytic Conversion of Glycerol to Bio-Based Aromatics -- 6. Ethanol Inhalation in Treatment and Prevention of Coronavirus Disease (COVID-19) -- 7. Nebulized Ethanol: An Old Treatment for a New Disease -- 8.

Theoretical Bases for the Disinfection of the SARS-CoV-2-Contaminated Airways by Means of Ethanol Inhalation -- 9. Ethanol as a Subgroup of the UNIFAC Model in the Prediction of Liquid-Liquid Equilibrium in Food and Fuel Systems.

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Sommario/riassunto

Due to their unique physicochemical properties, low cost, and wide availability, ethanol and glycerol have gained attention for their use as alternative feedstocks in the sustainable production of several commodity and specialty products. As a result, during the last decades, there has been intense research aimed at developing the potential applications of these biomass-derived compounds. Ethanol and Glycerol Chemistry - Production, Modelling, Applications, and Technological Aspects discusses recent advances and different aspects of the production, direct applications, and processing of ethanol and glycerol from a multidisciplinary perspective that includes the medical field, fuels, and chemical synthesis.

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