1. Record Nr. UNINA9910566466703321

Autore	Garroni Sebastiano
Titolo	Recycling of Waste Oils: Technology and Application
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (94 p.)
Soggetti	Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The increasing demand for alternative energy feedstocks is pushing many stakeholders toward the development of new processes, technologies, regulations, as well as new production and economical models. Waste oils represent a consolidated source of valuable raw materials for many industries and, as in the case of used vegetable oils, fit well with the medium- and long-term sustainability objectives of industrialized countries. Waste oils are transversal to many value chains, such as food, the plastic industry, and fossil fuel extraction; thus, they could represent precious raw materials if properly exploited. In this context, a state of the art is provided, which covers technical, regulatory, and research aspects of the topic.

2. Record Nr. UNINA9910346945203321

Autore	Weiß Jan-Philipp
Titolo	Numerical analysis of Lattice Boltzmann Methods for the heat equation on a bounded interval
Pubbl/distr/stampa	KIT Scientific Publishing, 2006
ISBN	1000005304
Descrizione fisica	1 online resource (VII, 190 p. p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Lattice Boltzmann methods are a promising approach for the numerical solution of fluid-dynamic problems. We consider the one-dimensional Goldstein-Taylor model with the aim to answer some of the questions concerning the numerical analysis of lattice Boltzmann schemes. Discretizations for the solution of the heat equation are presented for a selection of boundary conditions. Stability and convergence of the solutions are proved by employing energy estimates and explicit Fourier representations.