

1. Record Nr.	UNINA9910637698503321
Autore	Wang Qing
Titolo	EmergingWireless '22 : proceedings of the 1st International Workshop on Emerging Topics in Wireless : December 9, 2022, Rome, Italy / / Qing Wang, Arash Asadi
Pubbl/distr/stampa	New York, New York : , : Association for Computing Machinery, , 2022
Descrizione fisica	1 online resource (35 pages) : illustrations
Disciplina	004.678
Soggetti	Wireless communication systems - Technological innovations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Conventional wireless technologies such as LTE/5G and WiFi on sub-6GHz frequency bands have been at the core of the wireless communication and networking revolution for various applications. However, these conventional wireless technologies are insufficient to meet the high throughput, latency, and reliability of emerging vertical services such as autonomous vehicles, metaverse, and holographic communications. These emerging novel services not only exchange data but also critically rely on accurate information about the surrounding environment for their operation. Moving to mmWave/THz frequencies and beyond, integrating communication and sensing, embedding artificial intelligence into wireless networks, etc., are essential for future wireless networks. The first EmergingWireless workshop brings together researchers and practitioners from different communities to explore emerging wireless technologies and debate and discuss priorities and challenges in the research agenda.

2. Record Nr.	UNINA9910557153303321
Autore	Pari Luigi
Titolo	Renewable Energy Production from Energy Crops and Agricultural Residues
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (336 p.)
Soggetti	Research & information: general Technology: general issues Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Energies is open to submissions for a Special Issue on "Renewable Energy Production from Energy Crops and Agricultural Residues". Biomass represents an important source of renewable and sustainable energy production. Its increasing consumption is mainly related to the increase in global energy demand and fossil fuel prices, but also to a lower environmental impact compared to non-renewable fuels. These factors take RED II directives into consideration. In the past, forestry interventions were the main supply source of biomass, but in recent decades two others sources have entered the international scene. These are dedicated energy crops and agricultural residues, which are important sources of biomass for biofuel and bioenergy. Below, we consider four main value chains: â€ Oil crops: Oil production from non-food oilseed crops (such as camelina, Crambe, safflower, castor, cuphea, cardoon, etc.), oil extraction, and oil utilization for fuel production. â€ Lignocellulosic crops: Biomass production from perennial grasses (miscanthus, giant reed, switchgrass, reed canary grass, etc.), woody crops (willow, poplar, Robinia, eucalyptus, etc.), and agricultural residues (pruning, maize cob, maize stalks, wheat chaff, sugar cane straw, etc.), considering two main transformation systems: 1. Electricity/heat production 2. Second-generation ethanol production

• Carbohydrate crops (cereals, sweet sorghum, sugar beets, sugar cane, etc.) for ethanol production. • Fermentable crops (maize, barley, triticale, Sudan grass, sorghum, etc.) and agricultural residues (chaff, maize stalks and cob, fruit and vegetable waste, etc.) for production of biogas and/or biomethane.
