

1. Record Nr.	UNINA9910566470003321
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Titolo	Functional Polymers as Innovative Tools in the Delivery of Antimicrobial Agents
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (222 p.)
Soggetti	Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>This Special Issue explored different topics concerning recent progress in the synthesis and characterization of suitable innovative macromolecular systems, proposed as carriers of specific antimicrobial molecules, to be employed in the biomedical and pharmaceutical fields. Many infectious diseases are induced by omnipresent micro-organisms, including bacteria, viruses, protozoa, fungi, and algae, and, consequently, are very common, accounting for a significant share of the global disease burden. Unfortunately, antimicrobial resistance, adverse effects, and the high cost of antimicrobials are crucial health challenges worldwide. One of the common efforts in addressing this issue lies in improving the existing antimicrobial delivery systems. In this regard, nanoparticles as well as three-dimensional hydrophilic systems represent valuable tools able to ensure excellent performances. Biocompatible polymeric particles, entrapping these bioactive molecules, are capable of releasing them over a desired period of time, thereby decreasing the frequency of their administration. At the same time, these systems are able to protect antimicrobial drugs from degradation, enhancing their bioavailability. This Special Issue serves to highlight and capture the contemporary progress recorded in this field.</p>

2. Record Nr.	UNINA9910141965103321
Titolo	IMF staff papers // International Monetary Fund
Pubbl/distr/stampa	Washington, D.C., : International Monetary Fund, ©1999-
ISSN	1564-5150
Soggetti	Foreign exchange Commerce Currency question Change Question monetaire Wymienialnosc waluty Volkswirtschaftslehre Zeitschrift Wirtschaftswissenschaften Monetaire politiek Internationale economie MONETARY ANALYSIS FOREIGN EXCHANGE FINANCE Czasopismo ekonomiczne Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Title from IMF home page (viewed July 17, 2001).