4	Depend Mr	
1.	Record Nr.	UNINA9910557533503321
	Autore	Adeloju Samuel
	Titolo	10th Anniversary of Applied Sciences-Invited Papers in Chemistry Section
	Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
	Descrizione fisica	1 electronic resource (222 p.)
	Soggetti	Technology: general issues
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Sommario/riassunto	This book consists of 12 original research articles and one comprehensive review from invited chemists from around the world covering different fields of chemistry. The article on analytical chemistry features the analysis of highly polar metabolites in biological fluids, the determination of non-steroidal anti-inflammatory drugs with a gas chromatography coupled to ion trap mass spectrometry, and the synthesis of MoS2 nanostructures for the production of near-infrared photodetectors. The environmental chemistry articles include discussions on weekly and longitudinal elemental variability in hair samples, use of bottom ash as a stabilizing agent, the removal of phosphorus from the effluent of a paper company, and the chemistry and consequences of arsenic contamination of groundwater. Polymer/coating chemistry coverage includes the incorporation of superabsorbent polymers into cementitious-based composite materials, the use of licorice root extracts for edible coatings and postharvest quality improvement, and the use of mucin-grafted polyethylene glycol-based micro- for the oral delivery of insulin. The reported research on nanomaterials chemistry covers the synthesis of ZnO-doped ceria nanorods made up of CeO2/ZnO mixed oxides, and the production of carbon fiber-reinforced plastic bonded joints with novel carbon nanotube (CNT) adhesive films. A final paper on flavonol chemistry utilizes LC-MS/MS to investigate the stability of four