1. Record Nr. UNINA9910795365703321

Autore	Schroeder Kateryna
Titolo	What's Cooking : : Digital Transformation of the Agrifood System / / Kateryna Schroeder
Pubbl/distr/stampa	Washington, D.C. : , : The World Bank, , 2021
ISBN	1-4648-1658-1
Descrizione fisica	1 online resource (248 pages)
Collana	Agriculture and Food Series
Altri autori (Persone)	LampiettiJulian ElabedGhada
Soggetti	Digital Divide Digital Platforms Digital Technologies Efficiency Environmental Sustainability Equity Food System Information Asymmetries Innovation Ecosystem Transaction Costs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The digital agriculture revolution holds a promise to build an agriculture and food system that is efficient, environmentally sustainable, and equitable, one that can help deliver the Sustainable Development Goals. Unlike past technological revolutions in agriculture, which began on farms, the current revolution is being sparked at multiple points along the agrifood value chain. The change is driven by the ability to collect, use, and analyze massive amounts of machine-readable data about practically every aspect of the value chain, and by the emergence of digital platforms disrupting existing business models. All this allows for drastically reduced transaction costs and pervasive information asymmetries that plague the agrifood

	system. The success of the digital transformation, however, is not guaranteed as the risks it brings are numerous, including those related to data governance and inadequate competition within and between digital platforms. What's Cooking: Digital Transformation of the Agrifood System investigates how digital technologies can accelerate the transformation of the agrifood system by increasing efficiency on the farm; improving farmers' access to output, input, and financial markets; strengthening quality control and traceability; and improving the design and delivery of agriculture policies. It also identifies a key role for the public sector in maximizing the benefits of this process while minimizing its risks, through enabling an innovation ecosystem featuring open datasets, digital platforms, digital entrepreneurship, digital payment systems, and digital skills and encouraging equitable technology adoption.

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Titolo	Nanomaterials for Advanced Technologies / / edited by Jitendra Kumar Katiyar, Vinay Panwar, Neha Ahlawat
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-19-1384-6
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (199 p.)
Collana	Physics and Astronomy Series
Disciplina	620.115
Soggetti	Nanoscience Mathematical models Nanotechnology Biomaterials Nanophysics Mathematical Modeling and Industrial Mathematics Nanoscale Design, Synthesis and Processing Nanoengineering Biomedical Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.

Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Nanomaterials and their distinguishing features -- 2. Nanomaterials for light harvesting -- 3. Transparent conductive oxide nanolayers for dye sensitized solar cell -- 4. Nanomaterials' architectural study in perovskite solar cells -- 5. Nanomaterials for biomedical engineering applications -- 6. Nanomaterials for water purification -- 7. Nanoparticles and their role in environmental decontamination technologies.
Sommario/riassunto	This book presents experimental as well as simulation methodologies for analysis and development of nanostructures for introducing the desirable effects through modifications in the basic structure of select nanomaterials. The initial chapters in this book focus on exploring the basic aspects of nanomaterials, e.g., distinguishing features, synthesis, processing, characterization, simulation and application dimensions, or nanostructures that enable novel/enhanced properties or functions. The chapters also cover the size-dependent electronic, optical, and magnetic properties of nanomaterials in exposing the specific properties essential for applications in nanophotonics, nanoplasmonics, nanosystems (e.g., biological, medical, chemical, catalytic, energy, and environmental applications), and nanodevices (e.g., electronic, photonic, magnetic, imaging, diagnostic, and sensor applications). This book is a useful resource for students, researchers, and technologists in gathering recent knowledge on novel nanostructures and their use in different application areas.