1. Record Nr. UNINA9910746101003321

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Titolo	Additive Manufacturing in Pharmaceuticals / / edited by Subham Banerjee
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819924042 9819924049
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (378 pages)
Disciplina	615.6
Soggetti	Pharmaceutical chemistry Drug delivery systems Pharmacology Pharmaceutics Drug Delivery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. History and Present Scenario of Additive Manufacturing in Pharmaceuticals -- 2. Fused deposition modeling (FDM) of Pharmaceuticals -- 3. Stereolithography (SLA) in Pharmaceuticals -- 4. Selective Laser Sintering (SLS) In Pharmaceuticals -- 5. Semi-solid Extrusion (SSE) in Pharmaceuticals -- 6. Inkjet and Binder Jet Printing in Pharmaceuticals -- 7. 4D printing: The next dimension of healthcare in cancer research -- 8. 4D Printing in Pharmaceuticals -- 9. Bioprinting in Pharmaceuticals -- 10. Regulatory Perspective of Additive Manufacturing in the Field of Pharmaceuticals -- 11. Machine Learning in Additive Manufacturing of Pharmaceuticals. .
Sommario/riassunto	This book presents the different 3D/4D printing technological applications of Additive Manufacturing (AM) in Pharmaceutical Sciences. The initial chapter provides the historical perspective and current scenario of AM in pharmaceuticals. The book further discusses about different 3D printing platform technologies such as FDM, SLA, SLS, SSE, Ink-jet & binder jet principles & applications in developing advanced drug delivery systems. It also covers the methodology, materials for AM and important parameters associated with these platform technologies.

	The book highlights the progress and practical applications of 4D-printing technology in healthcare & pharmaceuticals fraternity as well including the essence of bioprinting in pharmaceuticals. Finally, the book reviews the regulatory guidelines, perspectives, and integration of Artificial Intelligence (AI)/Machine learning (ML) in pharmaceutical AM. This book is indeed a valuable resource for students, researchers/scholars, young start-ups/entrepreneurs, and pharmaceutical professionals by providing thorough detailing about AM in Pharmaceuticals.

2. Record Nr. UNINA9910585941503321

Autore	Modenese Alberto
Titolo	Occupational Health and Safety in the Healthcare Sector
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (282 p.)
Soggetti	Humanities Social interaction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Healthcare workers are exposed to several different occupational risk factors, and they pay an important tribute in terms of occupational diseases and work-related injuries. Currently, the COVID-19 pandemic has focused the attention on the problem of the infectious risk, which is certainly among the risks typically expected and specifically recognized for the health personnel, but also other occupational risks should not be overlooked, such as, e.g., the risks associated with work-organization factors and with the exposure to chemical and physical agents. The health consequences associated with the exposure to all these factors have relevant impacts in terms of induced diseases, DALYs, sickness absence from work and costs for the health systems.

According to these premises, this reprint has collected manuscripts addressing topics related to the prevention of the occupational risks in the healthcare sector, including original articles and reviews on the prevention of work-related illnesses and injuries of the health personnel, as well as on the evaluation of the risks in the healthcare workplaces, and on the topics of risk perception and of the knowledge and attitudes of the workers towards the preventive procedures and the use of protections. The themes of the prevention of occupational infectious risk, biomechanical overload of the musculoskeletal system and work-related psychosocial factors are specifically discussed in the papers collected.