



3D and 4D printing in biomedical applications [process engineering and additive manufacturing /

Maniruzzaman, Mohammed,
editor

Wiley-VCH,
[2019]

Monografía

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMjUxNTUwODQ>

Título: 3D and 4D printing in biomedical applications [Recurso electrónico] :] process engineering and additive manufacturing edited by Mohammed Maniruzzaman

Editorial: Weinheim Wiley-VCH [2019]

Descripción física: 1 recurso electrónico (xviii, 472 p.)

Mención de serie: Wiley ebooks

Bibliografía: Incluye referencias bibliográficas e índice

Contenido: 3D/4D Printing in Additive Manufacturing: Process Engineering and Novel Excipients / Christian Muehlenfeld, Simon A Roberts -- 3D and 4D Printing Technologies: Innovative Process Engineering and Smart Additive Manufacturing / Deck Tan, Ali Nokhodchi, Mohammed Maniruzzaman -- 3D Printing: A Case of ZipDose Technology -- World's First 3D Printing Platform to Obtain FDA Approval for a Pharmaceutical Product / Thomas G West, Thomas J Bradbury -- Manufacturing of Biomaterials via a 3D Printing Platform / Patrick Thayer, Hector Martinez, Erik Gatenholm -- Bioscaffolding: A New Innovative Fabrication Process / Rania Abdelgaber, David Kilian, Hendrik Fiehn -- Potential of 3D Printing in Pharmaceutical Drug Delivery and Manufacturing / Maren K Preis -- Emerging 3D Printing Technologies to Develop Novel Pharmaceutical Formulations / Christos I Gioumouxouzis1, Georgios K Eleftheriadis1, Dimitrios G Fatouros1 -- Modulating Drug Release from 3D Printed Pharmaceutical Products / Julian Quodbach -- Novel Excipients and Materials Used in FDM 3D Printing of Pharmaceutical Dosage Forms / Ming Lu -- Recent Advances of Novel Materials for 3D/4D Printing in Biomedical Applications / Jasim Ahmed -- Personalized Polypills Produced by Fused Deposition Modeling 3D Printing / Sheng Qi, Jehad Nasereddin, Fahad Alqahtani -- 3D Printing of Metallic Cellular Scaffolds for Bone Implants / Xipeng Tan, Yu Jun Tan -- 3D and 4D Scaffold-Free Bioprinting / Chin Siang Ong, Pooja Yesantharao, Narutoshi Hibino -- 4D Printing and Its Biomedical Applications / Saeed Akbari, Yuan-Fang Zhang, Dong Wang, Qi Ge -- Current

Trends and Challenges in Biofabrication Using Biomaterials and Nanomaterials: Future Perspectives for 3D/4D Bioprinting / Luciano P Silva -- Orthopedic Implant Design and Analysis: Potential of 3D/4D Bioprinting / Chang Jiang Wang, Kevin B Hazlehurst -- Recent Innovations in Additive Manufacturing Across Industries: 3D Printed Products and FDA's Perspectives / Brett Rust, Olga Tsaponina, Mohammed Maniruzzaman -- Index

Detalles del sistema: Forma de acceso: World Wide Web

ISBN: 9783527813698 3527813691 9783527813674 3527813675 9783527813704 3527813705 9783527344437 3527344438

Autores: Maniruzzaman, Mohammed, editor

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es