

1. Record Nr.	UNINA9910624311603321
Autore	Zhou Kun
Titolo	Additive Manufacturing : Materials, Functionalities and Applications // edited by Kun Zhou
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031047213 9783031047206
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (334 pages)
Collana	Engineering Series
Disciplina	621.988
Soggetti	Industrial engineering Production engineering Ceramic materials Industrial and Production Engineering Process Engineering Ceramics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	3D printed wearable electronics: techniques, materials, and applications -- Additive manufacturing of energy storage devices -- 4D printing of stimuli-responsive materials -- Personalized medicine: manufacturing oral solid dosage forms through additive manufacturing -- Additive manufacturing of metal implants and surgical plates -- Wire arc additive manufacturing: systems, microstructure, defects, quality control, and modelling -- Additive manufacturing of ceramics: materials, characterization and applications.
Sommario/riassunto	This book focuses on the advances of additive manufacturing in the applications of wearable electronics, energy storage, biomedical implants and devices, drug delivery, and technologies for 4D printing, large-scale printing, and ceramics printing. It provides timely insights into the materials, functionalities, and applications of additive manufacturing.