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Titolo	3D printable Gel-inks for Tissue Engineering : Chemistry, Processing, and Applications // edited by Anuj Kumar, Stefan Ioan Voicu, Vijay Kumar Thakur
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Collana	Gels Horizons: From Science to Smart Materials, , 2367-007X
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Soggetti	Biomaterials Regenerative medicine Colloids Regenerative Medicine and Tissue Engineering Gels and Hydrogels
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Nota di contenuto	Introduction to 3D printing technology for biomedical applications -- Characterization of bioinks for 3D bioprinting -- 3D printing of hydrogel constructs toward targeted development in tissue engineering -- 3D printable self-healing scaffolds for tissue engineering applications -- Gel-inks for 3D printing in corneal tissue engineering -- Three dimensional (3D) printable gel-inks for skin tissue regeneration -- Biofunctional Inks for 3D Printing in Skin Tissue Engineering.
Sommario/riassunto	This book provides the necessary fundamentals and background for researchers and research professionals working in the field of 3D bioprinting in tissue engineering. In 3D bioprinting, design and development of the biomaterial-inks/bio-inks is a major challenge in providing 3D microenvironments specific to anatomical and architectural demands of native tissues. The focal point of this book is to provide the basic chemistry of biomaterials, updates on current processing, developments, and challenges, and recent advancements in tissue-specific 3D printing/bioprinting. This book is will serve as a go-to reference on bioprinting and is ideal for students, researchers and

professionals, working academia, government, the medical industry,  
and healthcare.

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