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Nota di contenuto	Introduction -- New eco-friendly processes for functionalization of cellulose-based materials -- Novel regenerated cellulose materials -- Functional composites based on cellulose -- Nanocellulose based materials -- Novel cellulose derivatives and their applications -- Outlook. .
Sommario/riassunto	This Brief presents a review of new eco-friendly processes, design and applications for novel cellulose-based materials, including regenerated materials, composites, nanocellulose and cellulose derivatives. Application of these materials in smart textiles, packaging, energy storage, sensors, gas separations, tissue engineering and drug release are highlighted. .