

1. Record Nr.	UNINA9910555107803321
Titolo	Composites for environmental engineering // edited by Shakeel Ahmed, Saif Ali Chaudhry
Pubbl/distr/stampa	Hoboken, New Jersey ; ; Beverly, Massachusetts : , : Scrivener Publishing : , : Wiley, , [2019] ©2019
ISBN	1-5231-3289-2 1-119-55534-5 1-119-55532-9 1-119-55535-3
Descrizione fisica	1 online resource (357 pages)
Disciplina	628.0284
Soggetti	Pollution prevention - Equipment and supplies - Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	"Composites are materials made from two or more constituent materials with significantly different physical or chemical properties. The two materials combine together to give a new material with higher strength, toughness, stiffness, but also a higher resistance to creep, corrosion, wear or fatigue compared to conventional materials. It is composed primarily of a matrix i.e. a continuous phase which is armoured with secondary discontinues reinforcement phase. These materials have been used in a variety of products viz. spacecrafts, sporting goods, catalyst, sensors, actuators, biomedical materials, batteries, cars, furniture, aircraft components, etc. This book focusses on processing, properties of various types of composite materials, as well as their environmental engineering applications. This book examines the current state of art, new challenges, and opportunities of composites in environmental engineering. The chapters in this book covers nearly every topic related to composites in environmental engineering in four broad perspectives: (i) classification of composites (ii) green/hybrid synthesis and characterization of nano and

biocomposites (iii) processing of composite materials (iv) state-of--
the-art in fabricating the composites - nano and biocomposites - for
environmental applications"--
