

1. Record Nr.	UNINA9910965903803321
Autore	Kan Chi-wai
Titolo	A novel green treatment for textiles : plasma treatment as a sustainable technology // Chi-wai Kan
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , [2015] ©2015
ISBN	1-04-005341-6 0-429-06376-8 1-4398-3944-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (298 p.)
Collana	Sustainability : Contributions through Science and Technology
Classificazione	SCI013000SCI013010TEC010000
Disciplina	660.044 660/.044
Soggetti	Plasma chemistry - Industrial applications Textile fibers - Etching Bleaching Dyes and dyeing Textile chemistry Green chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; List of Figures; List of Tables; Series Preface; Foreword; Preface; Acknowledgements; About the Author; Chapter 1: Introduction; Chapter 2: Textile Materials; Chapter 3: Processes for Treating Textile Fibres; Chapter 4: What Is Plasma?; Chapter 5: Application of Plasma in the Pretreatment of Textiles; Chapter 6: Application of Plasma Treatment in the Dyeing of Textiles; Chapter 7: Application of Plasma Treatment in the Printing of Textiles; Chapter 8: Application of Plasma Treatment in Finishing of Textiles Chapter 9: Sustainability and Development of Plasma Treatment in Textile Wet ProcessingBack Cover
Sommario/riassunto	Focusing on green chemistry and sustainability, this book discusses how plasma treatment has been used to modify textile properties. The book highlights the benefits of generating plasma and the reaction

mechanisms between the surface of a textile and plasma species. The text addresses factors such as the nature of plasma gas, gas flow rate, system pressure, and discharge power that affect the final results of plasma treatments. An opening chapter presents current brown methods of treating textiles, exploring the environmental, economic and social costs of these methods. Throughout the book, the author presents the twelve principles of green chemistry and how they can be applied to the textile industry. --
