



Low Temperature Plasma Technology: Methods and Applications

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Written by a team of pioneering scientists from around the world, **Low Temperature Plasma Technology: Methods and Applications** brings together recent technological advances and research in the rapidly growing field of low temperature plasmas.

The book provides a comprehensive overview of related phenomena such as plasma bullets, plasma penetration into biofilms, discharge-mode transition of atmospheric pressure plasmas, and self-organization of microdischarges. It describes relevant technology and diagnostics, including nanosecond pulsed discharge, cavity ringdown spectroscopy, and laser-induced fluorescence measurement, and explores the increasing research on atmospheric pressure nonequilibrium plasma jets. The authors also discuss how low temperature plasmas are used in the synthesis of nanomaterials, environmental applications, the treatment of biomaterials, and plasma medicine.

This book provides a balanced and thorough treatment of the core principles, novel technology and diagnostics, and state-of-the-art applications of low temperature plasmas. It is accessible to scientists and graduate students in low-pressure plasma physics, nanotechnology, plasma medicine, and materials science. The book is also suitable as an advanced reference for senior undergraduate students.

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