

Foreword

Special Issue on Wide-Ranging and Exotic Applications of Fusion Technology, Part 3

Guest Editors

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This third volume of the *Fusion Science and Technology* special issue on wide-ranging and exotic applications of fusion technology covers nonorthodox fusion applications. The orthodox applications are often assumed to be related to fusion energy production for electricity generation as the ultimate goal. This issue features two reviews and seven research articles regarding other aspects of plasma generation, its stability and fueling, and applications to medicine and space travel. These articles present recent work on methodology of remote diagnostics of hot jet parameters, laser interferometry, transport processes in self-organized plasma, plasma discharge in a liquid under the effect of intensive ultrasound, the FC-FNS code to simulate fuel nuclide flows and their quantities in fuel cycle systems, plasma–chemical reactions, interactions with matter, propulsion systems for deep space travel, and plasma irradiation for medical applications. New concepts and achievements in experi-

mental and theoretical research areas, such as a powerful gyrotron, the L-2 M stellarator, dense proton-boron plasma, and fusion-relevant plasma for medical and material technology applications, including plasma generators, are in the scope of this special issue.

The editors wish to thank all the authors contributing to this special issue of *Fusion Science and Technology* as well as all the reviewers who provided insightful comments aimed at improving the understanding of the authors' work. These efforts together provide a great chance for readers to get acquainted with the fascinating developments in a wide range of exotic applications of fusion technology.

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