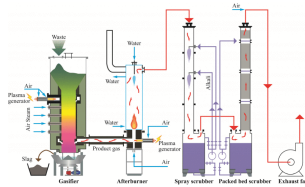


## Features in This Issue

### Two-Stage Pyrolysis/Gasification and Plasma Conversion Technology for the Utilization of Solid Waste



by Xiaowei Cai, Heshan Cai, Chao Shang, and Changming Du

[Read More](#)



IEEE TRANSACTIONS ON <b>PLASMA SCIENCE</b>			
A PUBLICATION OF THE IEEE NUCLEAR AND PLASMA SCIENCES SOCIETY			
JANUARY 2021	VOLUME 49	NUMBER 1	ITPSBD (ISSN 0093-3813)
PART 1 OF TWO PARTS			
<b>Invited Paper</b>			
Two-Stage Pyrolysis/Gasification and Plasma Conversion Technology for the Utilization of Solid Waste X. W. Cai, H. S. Cai, C. Shang, and C. M. Du 101			
<b>Invited Papers</b>			
Radio Processes in Fully and Partially Ionized Plasmas E. A. Balashov, A. V. Gerasimov, and A. V. Litvak 111			
Evolution Characteristics of Electric Field in AC Corona Discharge in Air S. H. Lee, S. H. Lee, S. H. Lee, and G. P. Zhang 124			
Calculation of the Electric Field in the Plasma Gasifier S. H. Lee, S. H. Lee, S. H. Lee, and G. P. Zhang 139			
Modeling of Plasma Processes Initiated by Micro-Beam Electrons in Atmospheric Pressure Plasmas S. H. Lee, S. H. Lee, S. H. Lee, and G. P. Zhang 154			
Electromagnetic Fields and Topology of Ignited Electron Beams in a Magnetically Insulated Traveling-Wave Tube S. H. Lee, S. H. Lee, S. H. Lee, and G. P. Zhang 169			
<b>Member's Corner and Museum Plasma Detection</b>			
Design and Analysis of a Wireless Sensor Network for Plasma Detection in a High-Capacity Storage System S. H. Lee, S. H. Lee, S. H. Lee, and G. P. Zhang 184			
First Prototype Unit Designed for the Electron Cyclotron Resonance Heating System in ITER S. H. Lee, S. H. Lee, S. H. Lee, and G. P. Zhang 199			
Investigation on High-Capacity Storage System for Plasma Detection in a High-Capacity Storage System S. H. Lee, S. H. Lee, S. H. Lee, and G. P. Zhang 214			
Y. W. Zhou, Y. W. Zhou, Y. W. Zhou, Y. W. Zhou, Y. W. Zhou, and Y. W. Zhou 229			
IEEE			

## IEEE Transactions on Plasma Science

A publication of the IEEE Nuclear and Plasma Sciences Society.

[VIEW THE TABLE OF CONTENTS](#)



[T-PS Home](#) | [T-PS in IEEE Xplore](#) | [Early Access](#) | [Manuscript Submission](#)

[View the full series on IEEE Xplore.](#)