

# Fusion Science and Technology

VOLUME 77 · NUMBER 4 · MAY 2021

## Contents

### TECHNICAL PAPERS

- 251** Spent Nuclear Fuel Incineration by Fusion-Driven Liquid Transmutator Operated in Real Time by Laser  
*T. Tajima, A. Necas, G. Mourou, S. Gales, M. Leroy*
- 266** Matter Injection in EU-DEMO: The Preconceptual Design  
*B. Ploeckl, P. T. Lang, A. Frattolillo, Y. Igithkanov, B. Pégourié, E. Fable, Chr. Day, C. Gliss*
- 279** Thermogravimetric Oxidation Analyses of Carbon Tokamak Codeposits and Flakes  
*U. Shahid, B. W. N. Fitzpatrick, C. P. Chrobak, J. W. Davis, M. H. A. Piro*
- 289** Variation of Plasma Properties in Cylindrical Inertial Electrostatic Confinement Device by Changing the Anode Transparency  
*Z. S. Abd El-Salam, H. A. Eltayeb, M. E. Abdel-Kader, M. A. Abd Al-Halim*
- 298** Manufacturing Technologies for Ultra-High-Vacuum-Compatible 10 MW/m<sup>2</sup> High Heat Flux Components for Application in Fusion Devices  
*Hitesh Patel, Nirmal Panda, Nitin Kanoongo, K. Balasubramanian, M. J. Singh, Arun Chakraborty*
- 310** Performance of W-1%Y<sub>2</sub>O<sub>3</sub>-0.5%Ti Plasma-Facing Composite Under Fusion Relevant Transient Heat Flux  
*Changjun Li, Dahuan Zhu, Xiangbin Li, Junling Chen*
- 316** Power Quality Analysis for Poloidal Field Power Supply System in EAST  
*Jun Qu, Peng Fu, Yanan Wu, Jing Lu, Mingxing Zhu, Yan Liang, Yunxiang Tian*
- 327** Application of High-Energy Tritium Ions and Alpha Particles Formed in <sup>6</sup>Li(*n*,α)*T* Nuclear Reaction to Excite the Luminescence of Inert Gas Mixtures  
*Yu Ponkratov, E. Batyrbekov, M. Khasenov, K. Samarkhanov, Ye Chikhray*