

Contents

RESEARCH ARTICLES

- 137** Benchmarking Hydrogen Isotope Separation Efficiency of Pd/k–Packed TCAP Columns
Kori D. McDonald, Collin Malone, Josh J. Cooper, Anthony B. Thompson, George K. Larsen
- 143** TCV Tokamak Neutron Shielding Upgrade for Dual NBI Operation
H. Weisen, P. Blanchard, M. Vallar, A. N. Karpushov, J. Dubray, A. Merle, B. P. Duval, J. Cazabonne, D. Testa, H. Hamac Elaian, the TCV Team, A. Žohar, L. Snoj, B. Kos, M. Fortuna, A. Čufar, F. Tesse, F. Fontana, C. Gloor, R. Iannarelli, H. Palacios, C. Tille, M. Molteni
- 156** A Study on Interactions of 14.7-MeV Protons and 3.6-MeV Alphas in ^{93}Nb Target
M. Yiğit, A. Kara, A. Yilmaz
- 166** Effect of Welding Speed and Post-Weld Heat Treatment on Microstructural and Mechanical Properties of Alpha+Beta Titanium Alloy EB Welds
Vamsi Krishna K, Gopi Krishna C, Ateekh Ur Rehman, Kishore Babu Nagumothu, Mahesh Kumar Talari, Prakash Srirangam
- 178** Physical Properties and Effect of Helium-Vacancy Pair on Tungsten/Graphene Composite as Plasma-Facing Materials from First Principles
Yan Qizhen, Zhaochun Zhang, Guo Haibo, Wang Yang
- 196** Design and Development of 0.3-T Toroidal Field Coil System for Small-Sized MT-II Spherical Tokamak
Kamran Ahmad, Zahoor Ahmad, Saira Gulfam, Muhammad Taimoor Saleem, Muhammad Bilal, Asad Yaqoob Mian
- 205** Thermodynamics and Kinetics Analysis of Hydrogen Absorption by $\text{Zr}_{0.8}\text{Ti}_{0.2}\text{Co}$ Alloy
Weidong Ding, Hongguang Yang, Qin Zhan
- 215** Investigations of Microstructure and Mechanical Properties of Post-Weld Heat-Treated DP780 Steel TIG Welds
Gopi Krishna C, M. J. Quamar, N. Kishore Babu, Sarath Kumar G V, Bharath Bandi, M. K. Talari

—continued—

Contents continued

VOLUME 80 · NUMBER 2 · FEBRUARY 2024

- 230** Indigenous Development of Epoxy Resin System for Cryogenic Services and Fusion Application
Rajiv Sharma, Alkesh M. Mavani, V. L. Tanna
- 244** First-Principles Study of the Stability of Ti_nO_m Clusters and He Behavior Inside $Ti_nO_2Va_1$ Clusters in Vanadium Alloy
Ruihuan Li, Bo Zhang, Dan Sun, Xiaoxiao Gao, Jijun Zhao