

CONTENTS

M.-C. Zhang, S.-C. Duan, R.-H. Xu, M. Zou, S.-W. Dong, H.-J. Guo, J. Guo	
Thermodynamic properties prediction of Mg-Al-Zn melts based on the atom and molecule coexistence theory	135
W.-Q. Ao, H.-Z. Yu, F.-L. Liu, F.-S. Liu, J.-Q. Li, Y. Du, S.-H Liu, C.-Y. Shi	
Isothermal section of the Ni–Mn–Sb ternary system at 773K	147
D. Minić, M. Premović, N. Tošković, D. Manasijević, V. Čosović, M. Janačković, M. Tomović	
Experimental investigation and thermodynamic calculations of the Bi-Ni-Pb phase diagram	157
T.-J. Chun, G.-T. Mu, Q.-M. Meng, H.-M. Long, P. Wang, C.-G. Bi	
Preparation of MgO added iron ore pellets and effects on a pilot scale blast furnace operation	167
Y. Yu, H.-J. Li, L. Li	
Reduction behavior of tin-containing phase in tin-bearing iron concentrates under CO-CO ₂ mixed gases	177
K. OuYang, Z.-H. Dou, T.-A. Zhang, Y. Liu, L.-P. Niu	
Desulfurization kinetics of high lead and zinc sulfide containing slag with oxygen blowing	187
W.-Q. Sun, X.-D. Xu, Y. Zhang, J.-Z Wu	
Chlorine corrosion of blast furnace gas pipelines: analysis from thermal perspective	197
A. Al-Azzawi, F. Kristály, Á. Rácz, P. Baumli, K. Bohács, G. Mucsi	
Mechanical alloying of iron-coated NbC and Si in stirred media mill	209
S. Nouri, M. Azadeh	
Microstructural investigation of the coatings prepared by simultaneous aluminizing and siliconizing process on gamma-TiAl	217
D.-B. Wei, H.-X. Liang, S.-Q. Li, F.-K. Li, F. Ding, S.-Y. Wang, Z.-L. Liu, P.-Z. Zhang	
Microstructure and tribological behavior of W-Mo alloy coating on powder metallurgy gears based on double glow plasma surface alloying technology	227
M.M. Barjesteh, K. Zangeneh-Madar, S.M. Abbasi, K. Shirvani	
The effect of platinum-aluminide coating features on high-temperature fatigue life of nickel-based superalloy Rene®80	235
Z.-X. Liu, Y.-T. Luo, W.-B. Luo, B.-X. Li, X.-W. Wu	
Selective leaching of Mo from an off-grade gravity lead concentrate in Na ₂ CO ₃ solution	253
A. Soltanzadeh, S. Shahini, F. Rashchi, M. Saba	
Synthesis of dendritic silver nano powder using pulsing electrolysis in ammonia solution	261
M. Muzyk, K.J. Kurzydłowski	
Generalised stacking fault energies of copper alloys – density functional theory calculations	271
E. Colin-García, A. Cruz-Ramírez, G. Reyes-Castellanos, J. A. Romero-Serrano, R. G. Sánchez-Alvarado, M. Hernández-Chávez	
Influence of nickel addition and casting modulus on the properties of hypo-eutectic ductile cast iron	283