

Materials Science and Technology

July 2008 Volume 24 Number 7

- 757 **Review** High throughput thin film materials science
Z. H. Barber and M. G. Blamire
- 771 **Acicular ferrite development in autogenous laser welds using cerium sulphide particle dispersed steels**
G. Thewlis, W. T. Chao, P. L. Harrison and A. J. Rose
- 787 **Application of a mathematical model to multipass hot deformation of aluminium alloy AA5083**
H. Ahmed, M. A. Wells, D. M. Maijer and M. R. van der Winden
- 798 **Development of IF steel-Al multilayer composite by repetitive roll bonding and annealing process**
V. Jindal, V. C. Srivastava and R. N. Ghosh
- 803 **Creep of dilute tin based lead free solder alloys as replacements of Sn-Pb solders**
R. Mahmudi, A. R. Geranmayeh, H. Noori, G. Nayyeria and F. Pishbin
- 809 **Incorporation of new technique for processing of Al/SiC_p composites based on evaporative pattern casting (EPC) method**
M. Golestanipour, R. Bagheri and M. H. Sadeghian
- 815 **Experimental investigation and modelling of microstructural variables of Al-4Cu-Mg alloy**
Y. L. Lu, M. Q. Li and X. C. Li
- 822 **Novel technology for improving damping capacity of aluminium foam by interface layer**
G. L. Hao, F. S. Han and W. D. Li
- 827 **Microstructure of Al-Mg dissimilar weld made by cold metal transfer MIG welding**
J. Wang, J. C. Feng and Y. X. Wang
- 832 **Recrystallisation and dilatometric behaviour of low carbon and ultralow carbon steels**
T. De Cock, C. Capdevila, J. P. Ferrer, F. G. Caballero, J. A. Jiménez and C. García de Andrés
- 838 **Effects of sputtering power on mechanical properties of Cr films deposited by magnetron sputtering**
K. Kim, M. Park, W. Lee, H. W. Kim, J. G. Lee and C. Lee
- 843 **Isothermal martensite: austenite grain size and kinetics of 'spread'**
J. R. C. Guimarães
- 848 **Microstructure characterisation and mechanical properties of rapidly solidified Mg-Zn-Ca alloys with Ce addition**
Z. H. Chen, T. Zhou, D. Chen, H. G. Yan and J. H. Chen
- 856 **Kinetics of texture evolution during rapid solutionising of cold rolled Al-Mg-Si alloy**
S. Saimoto, C. Gabryel, J. Cooley and H. Jin
- 864 **Two-dimensional microstructure based modelling of Young's modulus of long fibre thermoplastic composite**
A. Goel, K. K. Chawla, U. K. Vaidya, N. Chawla and M. Koopman
- 870 **Theoretical study of Ni-Al nanoalloy clusters using particle swarm optimisation algorithm**
J. C. Zhou, W. J. Li and J. B. Zu
- 875 **Letter to the Editor Evidence for entrainment defects**
J. Campbell