

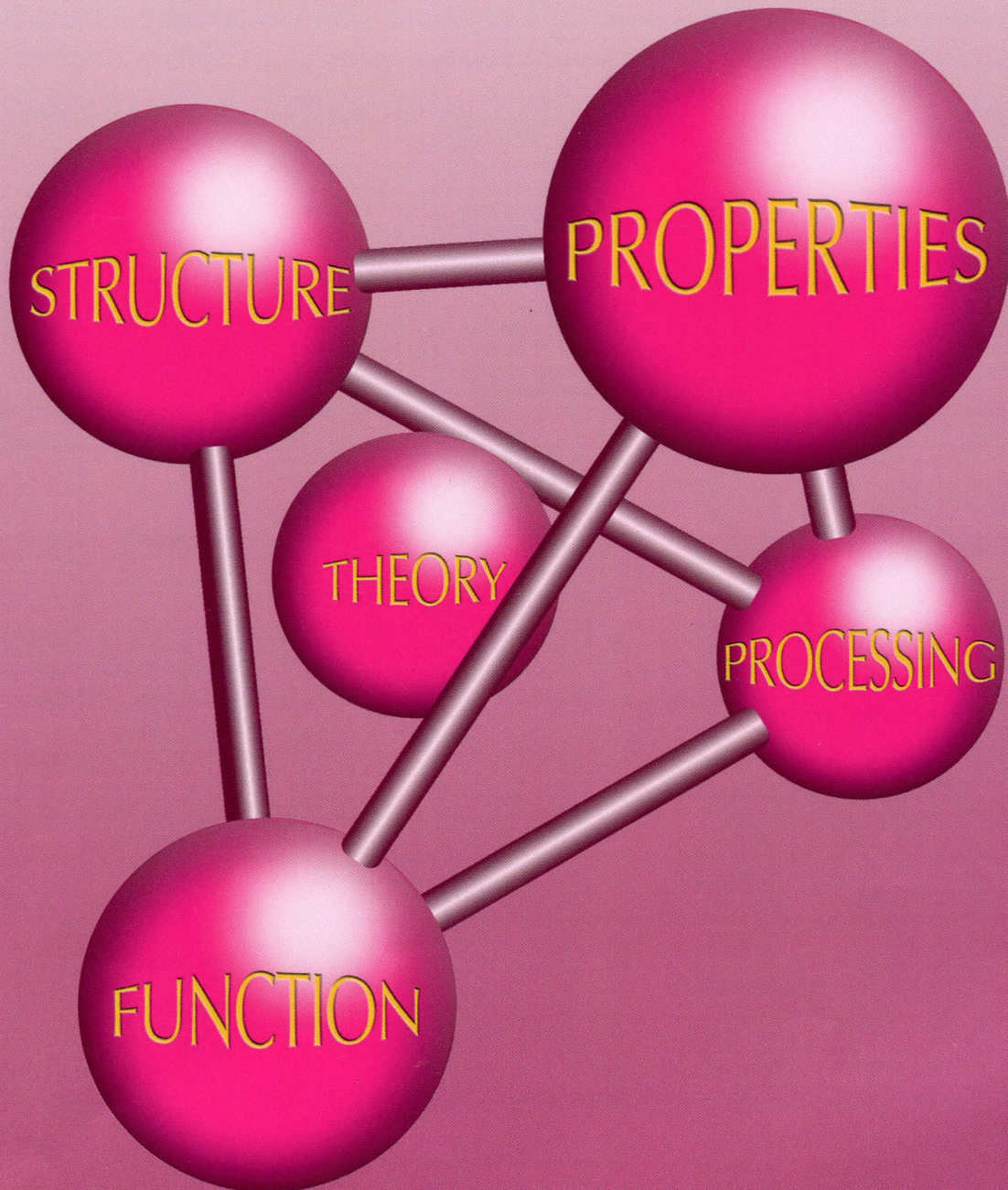


Volumes 84–85, August 2014

ISSN 1359-6462

Scripta MATERIALIA

A LETTERS JOURNAL



Scripta MATERIALIA

Volumes 84–85
(Published 22 May 2014)

CONTENTS

- | | | |
|--|----|--|
| B.-C. Suh, M.-S. Shim, K.S. Shin & N.J. Kim | 1 | Current issues in magnesium sheet alloys: Where do we go from here? |
| A. Wiest, C.A. MacDougall & R.D. Conner | 7 | Optimization of cellular solids for energy absorption |
| H. Mansour, J. Guyon, M.A. Crimp, N. Gey, B. Beausir & N. Maloufi | 11 | Accurate electron channeling contrast analysis of dislocations in fine grained bulk materials |
| C.D. Barrett & H. El Kadiri | 15 | Fundamentals of mobile tilt grain boundary faceting |
| J. Yan, Y. Sun, C. Wang, L. Chu, Z. Shi, S. Deng, K. Shi & H. Lu | 19 | Study of structure of Mn ₃ Cu _{0.5} Ge _{0.5} N/Cu composite with nearly zero thermal expansion behavior around room temperature |
| D. Guedes, A. Oudriss, S. Frappart, G. Courlit, S. Cohendoz, P. Girault, J. Creus, J. Bouhattate, A. Metsue, F. Thebault, L. Delattre, D. Koschel & X. Feaugas | 23 | The influence of hydrostatic stress states on the hydrogen solubility in martensitic steels |
| Y.B. Wang, C.C. Lee, J. Yi, X.H. An, M.X. Pan, K.Y. Xie, X.Z. Liao, J.M. Cairney, S.P. Ringer & W.H. Wang | 27 | Ultrahigh-strength submicron-sized metallic glass wires |
| F.K. Yan, N.R. Tao & K. Lu | 31 | Tensile ductility of nanotwinned austenitic grains in an austenitic steel |
| P. Guyot, G. Antou, N. Pradeilles, A. Weibel, M. Vandenhende, G. Chevallier, A. Peigney, C. Estournès & A. Maître | 35 | Hot pressing and spark plasma sintering of alumina: Discussion about an analytical modelling used for sintering mechanism determination |
| J.-W. Kang, Y.-S. Choi, B.-H. Kim, N.-Y. Kim, C.W. Tu & S.-J. Park | 39 | Structural and electrical properties of phosphorous-doped p-type ZnS _x O _{1-x} film grown by co-sputtering |
| Q. Zhao | 43 | Cluster strengthening in aluminium alloys |
| M.R. Ahmadi, E. Povoden-Karadeniz, B. Sonderegger, K.I. Öksüz, A. Falahati & E. Kozeschnik | 47 | A model for coherency strengthening of large precipitates |
| J. Li, S. Chen, X. Wu & A.K. Soh | 51 | Strong crack blunting by shear-coupled migration of grain boundaries in nanocrystalline materials |
| G. Pia & F. Delogu | 55 | Surface stresses and Young's modulus in nanoporous Au foams |
| D. Yu, H. Bei, Y. Chen, E.P. George & K. An | 59 | Phase-specific deformation behavior of a relatively tough NiAl–Cr(Mo) lamellar composite |

INDEXED IN Current Contents, BIOSIS/CAS Selects, Camb. Sci. Abstr., Eng. Ind. Monthly and Author Ind., IBZ, Energy Res. Abstr., Energy Data Base, Metals Abstr., World Alum. Abstr., and the MSCI. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®

Printed by Henry Ling Ltd., Dorchester, United Kingdom

ISSN 1359-6462

Available online at www.sciencedirect.com

ScienceDirect



1359-6462(201408)84:85C;1-C