
Review papers in Journal of Materials Science Volumes 39, 40 and 41

Volume 39 (2004)

A. BALDAN Adhesively-bonded joints and repairs in metallic alloys, polymers and composite materials, p. 1

E. HORNBOGEN Thermo-mechanical fatigue of shape memory alloys, p. 385

L. E. MURR, E. V. ESQUIVEL Observations of common microstructural issues associated with dynamic deformation phenomena: Twins, microbands, grain size effects, shear bands, and dynamic recrystallization, p. 1153

G. P. TIWARI, J. M. JUNEJA and Y. IJIMA Role of entropy of fusion in phase transformation and self-diffusion, p. 1535

C. FURETTA, G. KITIS Models in thermoluminescence, p. 2277

D. D. L. CHUNG Electrical applications of carbon materials, p. 2645

D. D. L. CHUNG Use of polymers for cement-based structural materials, p. 2973

WEI YANG, ZHONG-MING LI, WEI SHI, BANG-HU XIE and MING-BO YANG On auxetic materials, p. 3269

S. K. SAMANTARAY, K. PARIDA Effect of anions on the textural and catalytic activity of titania-silica mixed oxide, p. 3549

J. NJUGUNA, K. PIELICHOWSKI Recent developments in polyurethane-based conducting composites, p. 4081

SAN PING JIANG, SIEW HWA CHAN A review of anode materials development in solid oxide fuel cells, p. 4405

A. BALDAN Adhesively-bonded joints in metallic alloys, polymers and composite materials: Mechanical and environmental durability performance, p. 4729

HAI ZHI YE, XING YANG LIU Review of recent studies in magnesium matrix composites, p. 6153

M. H. BOCANEGRA-BERNAL Hot Isostatic Pressing (HIP) technology and its applications to metals and ceramics, p. 6399

Volume 40 (2005)

J. SINGH, D. E. WOLFE Nano and macro-structured component fabrication by electron beam-physical vapor deposition (EB-PVD), p. 1

Y. KOBAYASHI, T. ISHIZAKA and Y. KUROKAWA Preparation of alumina films by the sol-gel method, p. 263

G. ARMSTRONG, M. BUGGY Hydrogen-bonded supramolecular polymers: A literature review, p. 547

D. B. SIRDESHMUKH, K. G. SUBHADRA Consistency checks on elastic properties of crystals, p. 1553

Volume 41 (2006)

ROBERT W. CAHN A review of reviews, p. 593

R. D. RAWLINGS, J. P. WU and A. R. BOCCACCINI Glass-ceramics: Their production from wastes—A Review, p. 733

Z. A. MUNIR, U. ANSELMI-TAMBURINI and M. OHYANAGI The effect of electric field and pressure on the synthesis and consolidation of materials: A review of the spark plasma sintering method, p. 763

(Continued on next page)

- K. M. KRISHNAN, A. B. PAKHOMOV, Y. BAO, P. BLOMQUIST, Y. CHUN, M. GONZALES, K. GRIFFIN, X. JI and B. K. ROBERTS** Nanomagnetism and spin electronics: materials, microstructure and novel properties, p. 793
- A. R. BUNSELL and A. PIANT** A review of the development of three generations of small diameter silicon carbide fibres, p. 823
- R. F. COOK** Strength and sharp contact fracture of silicon, p. 841
- D. S. McPHAIL** Applications of Secondary Ion Mass Spectrometry (SIMS) in Materials Science, p. 873
- ANTHONY KELLY** Composite materials after seventy years, p. 905
- N. CHAWLA and K. K. CHAWLA** Microstructure-based modeling of the deformation behavior of particle reinforced metal matrix composites, p. 913
- CHUNSHENG LU, YIU-WING MAI and YAO-GEN SHEN** Recent advances on understanding the origin of superhardness in nanocomposite coatings: A critical review, p. 937
- M. TANAKA and R. J. YOUNG** Review Polarised Raman spectroscopy for the study of molecular orientation distributions in polymers, p. 963
- YU CHEN, MICHAEL HANACK, WERNER J. BLAU, DANILO DINI, YING LIU, YING LIN and JINRUI BAI** Soluble axially substituted phthalocyanines: Synthesis and nonlinear optical response, p. 2169
- A. EKSILIOGLU, N. GENÇAY, M. F. YARDIM and E. EKINCI** Mesophase AR pitch derived carbon foam: Effect of temperature, pressure and pressure release time, p. 2743
- A. MUNITZ, A. M. BAMBERGER, S. WANNAPARHUN and R. ABBASCHIAN** Effects of supercooling and cooling rate on the microstructure of Cu-Co-Fe alloys, p. 2749
- N. V. CHANDRA SHEKAR and P. CH. SAHU** Pressure induced structural behaviour in f-electron based AB, AB₂ and AB₃ intermetallics, p. 3207
- JUNG-HO WEE and KWAN-YOUNG LEE** Overview of the effects of rare-earth elements used as additive materials in molten carbonate fuel cell systems, p. 3585